

Fig. PA1: MAGNET-Automated Contracting System

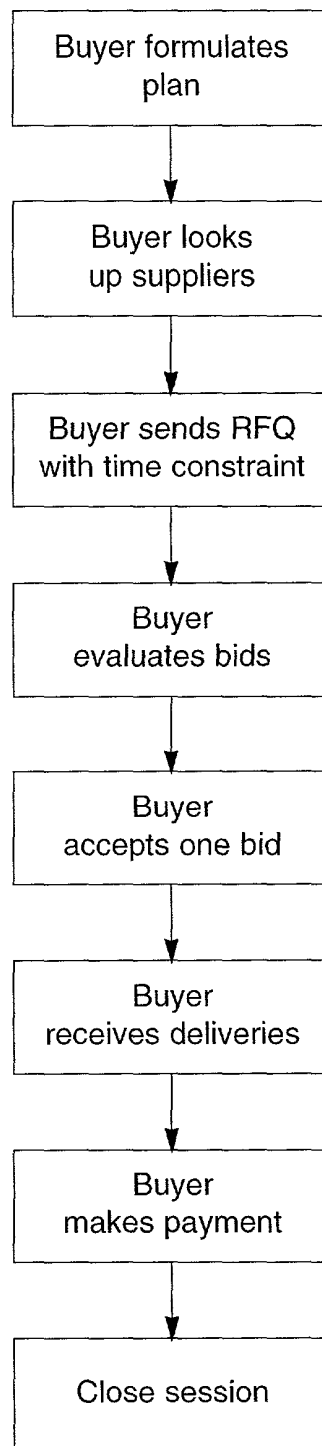


Fig. PA2: Fishmarket

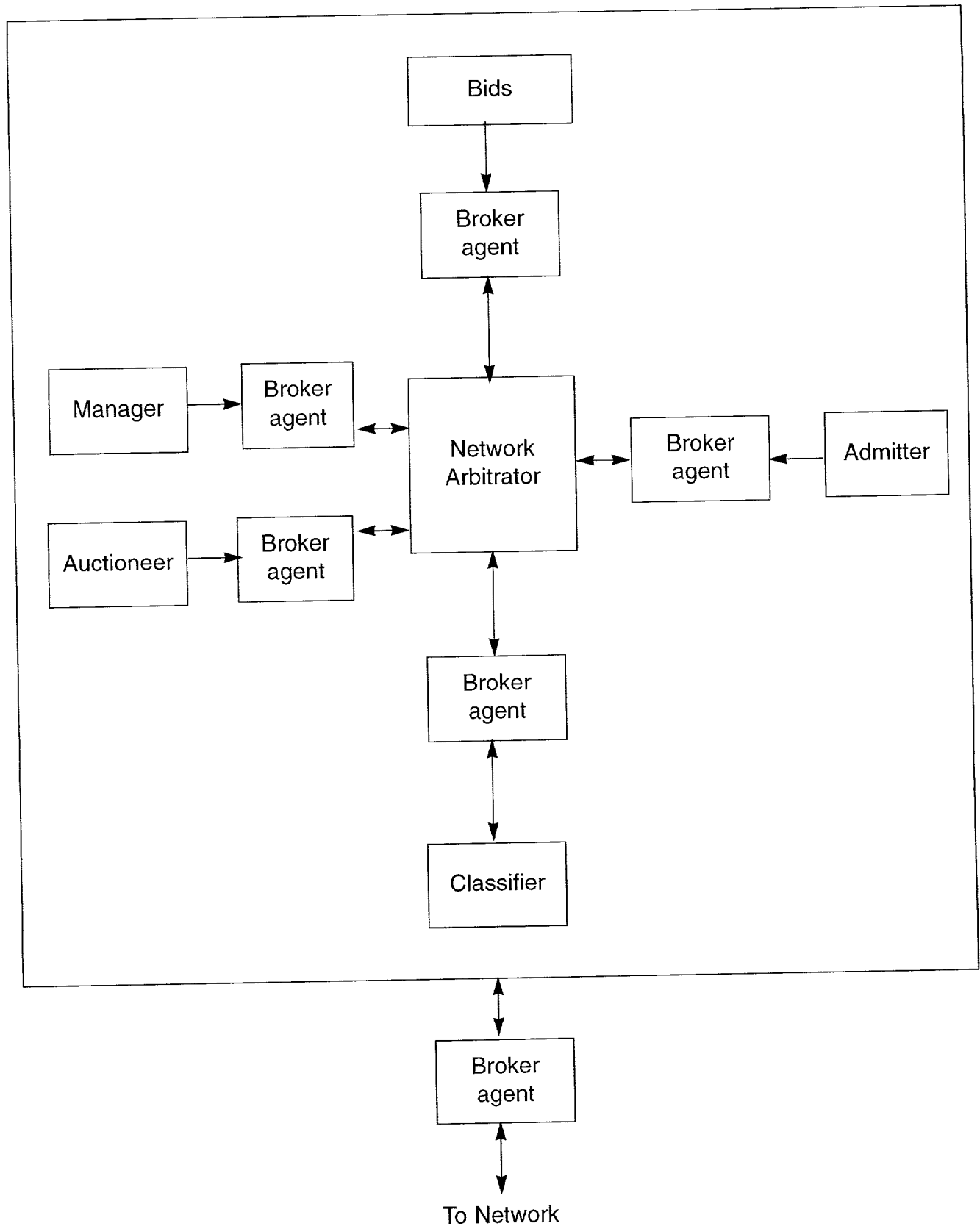


Fig. PA3: Kasbah Marketplace

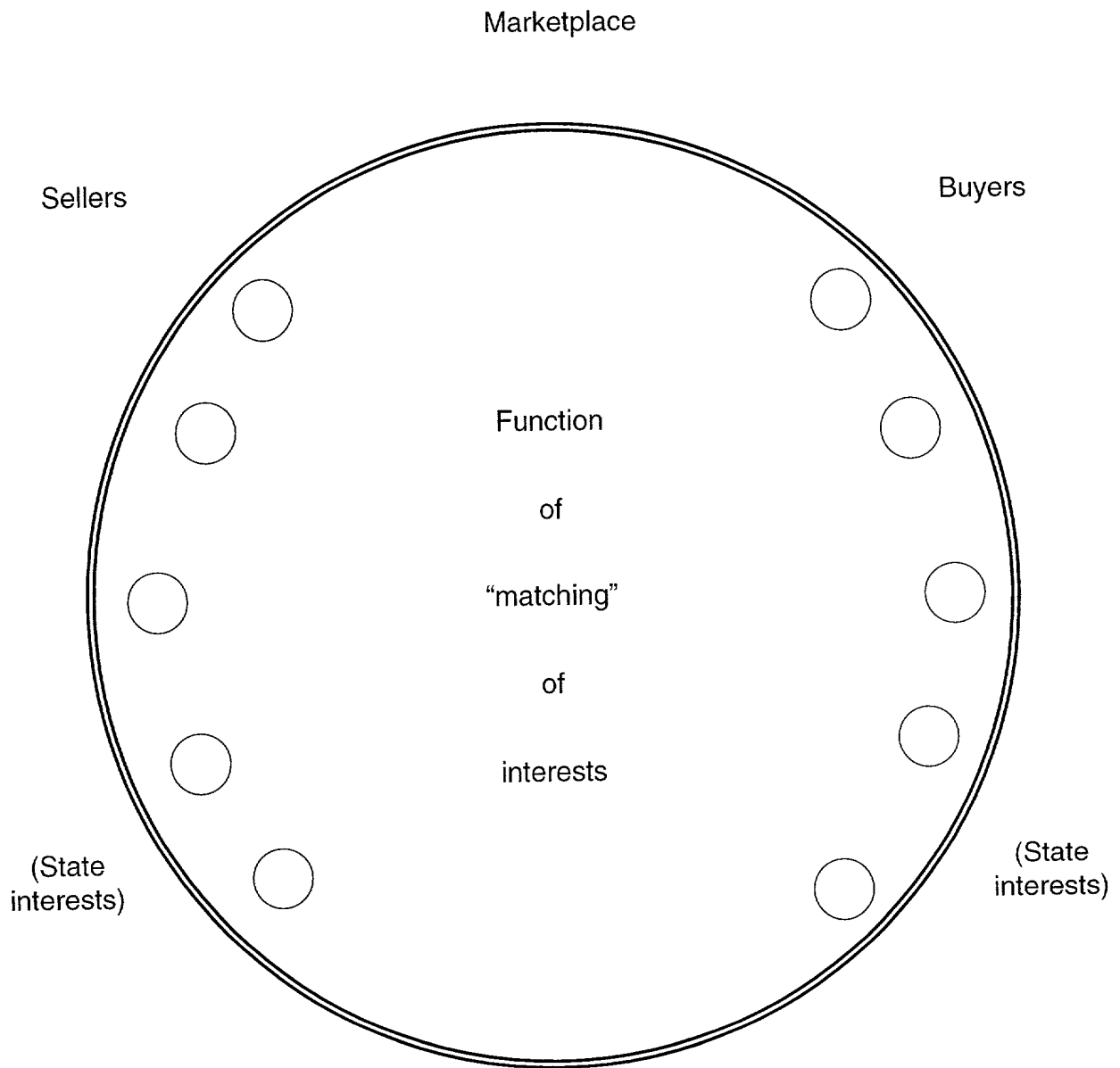


Fig. PA4A: Tete-a-tete (I): Integrative Negotiation

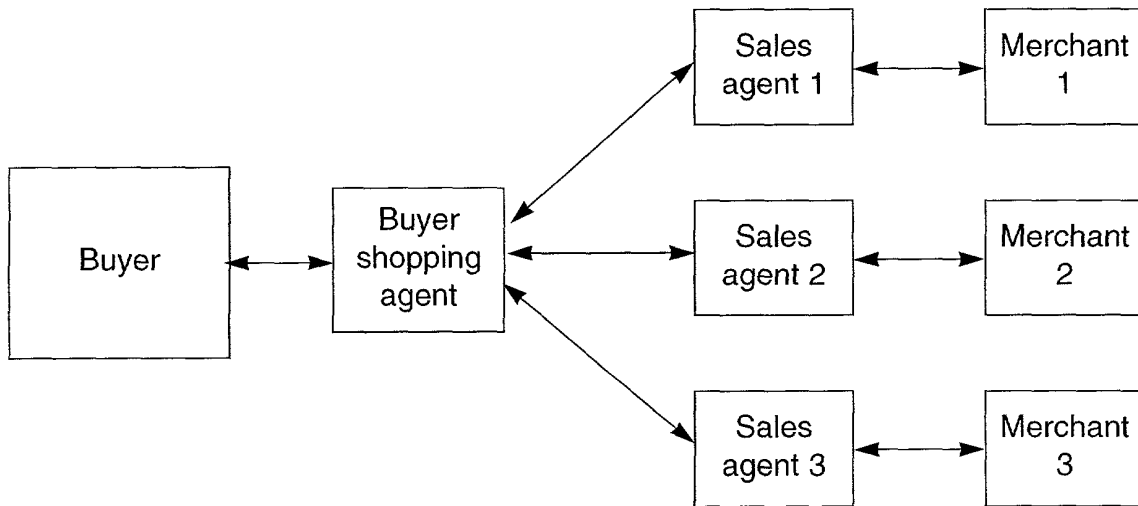


Fig. PA4B: Tete-a-tete (II): Bilateral Negotiation

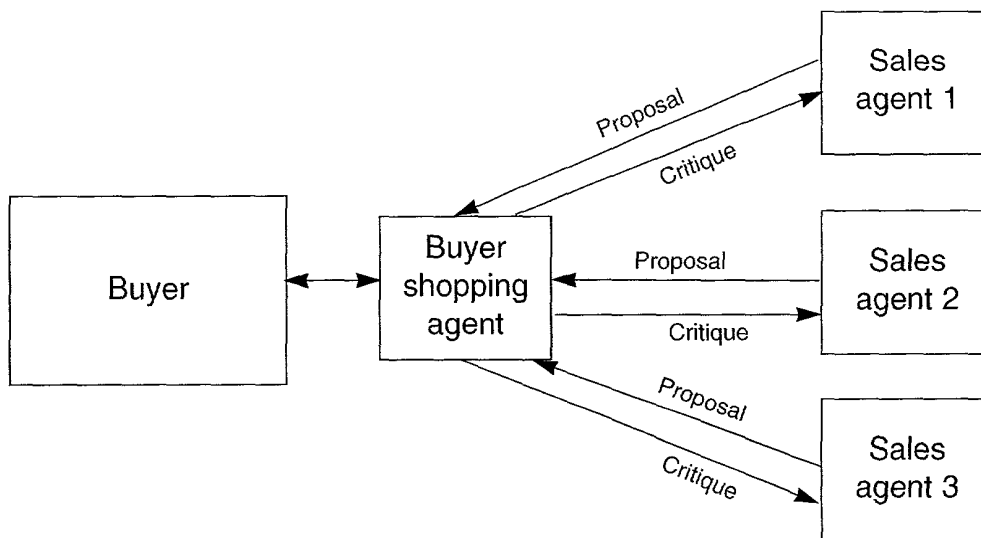


Fig. PA5: Contract Net-4 Stages of the Contract Net

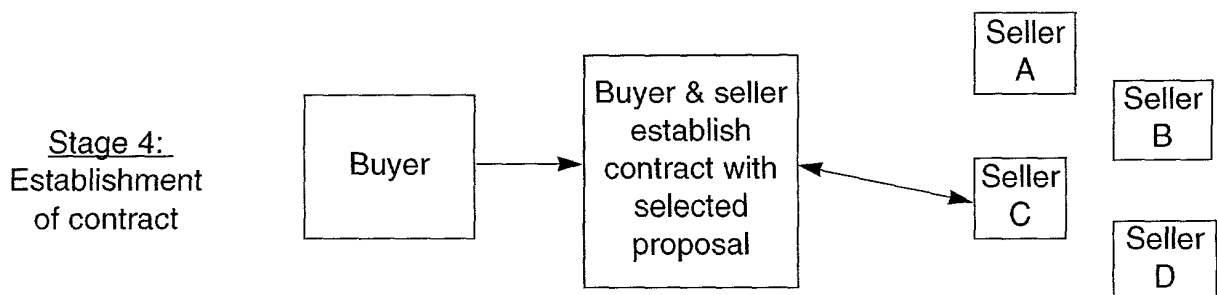
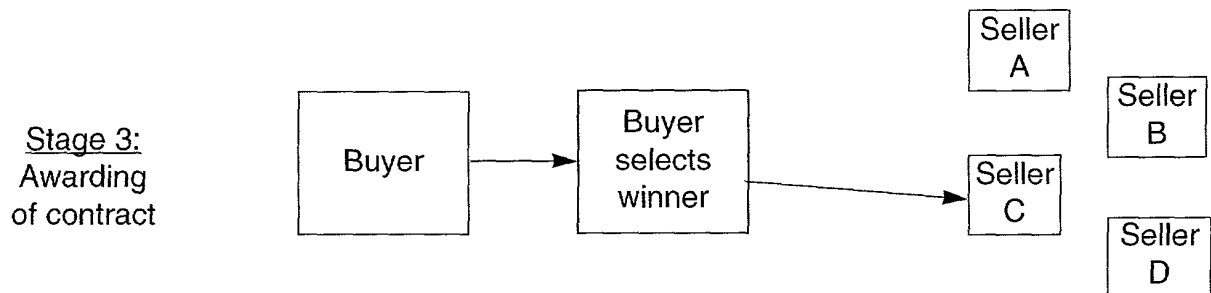
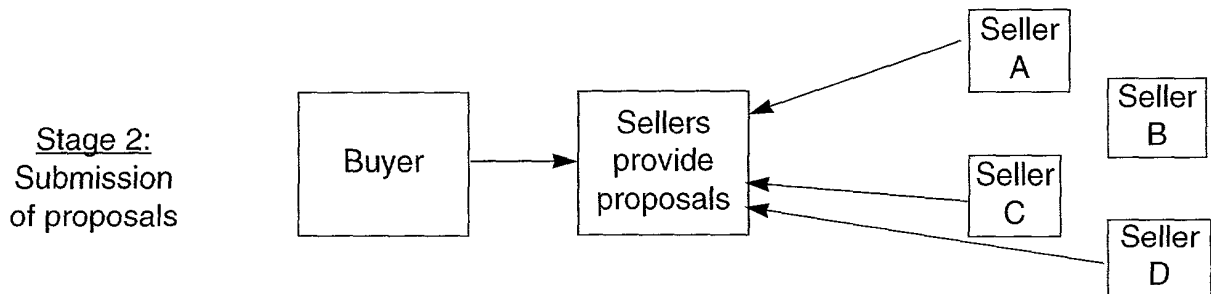
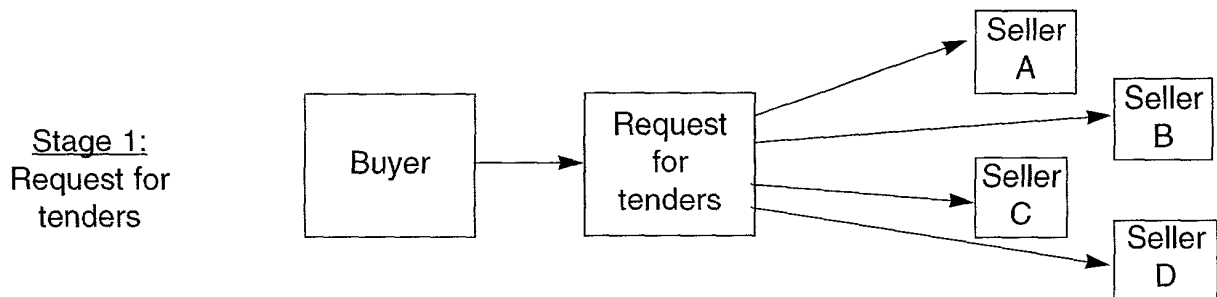
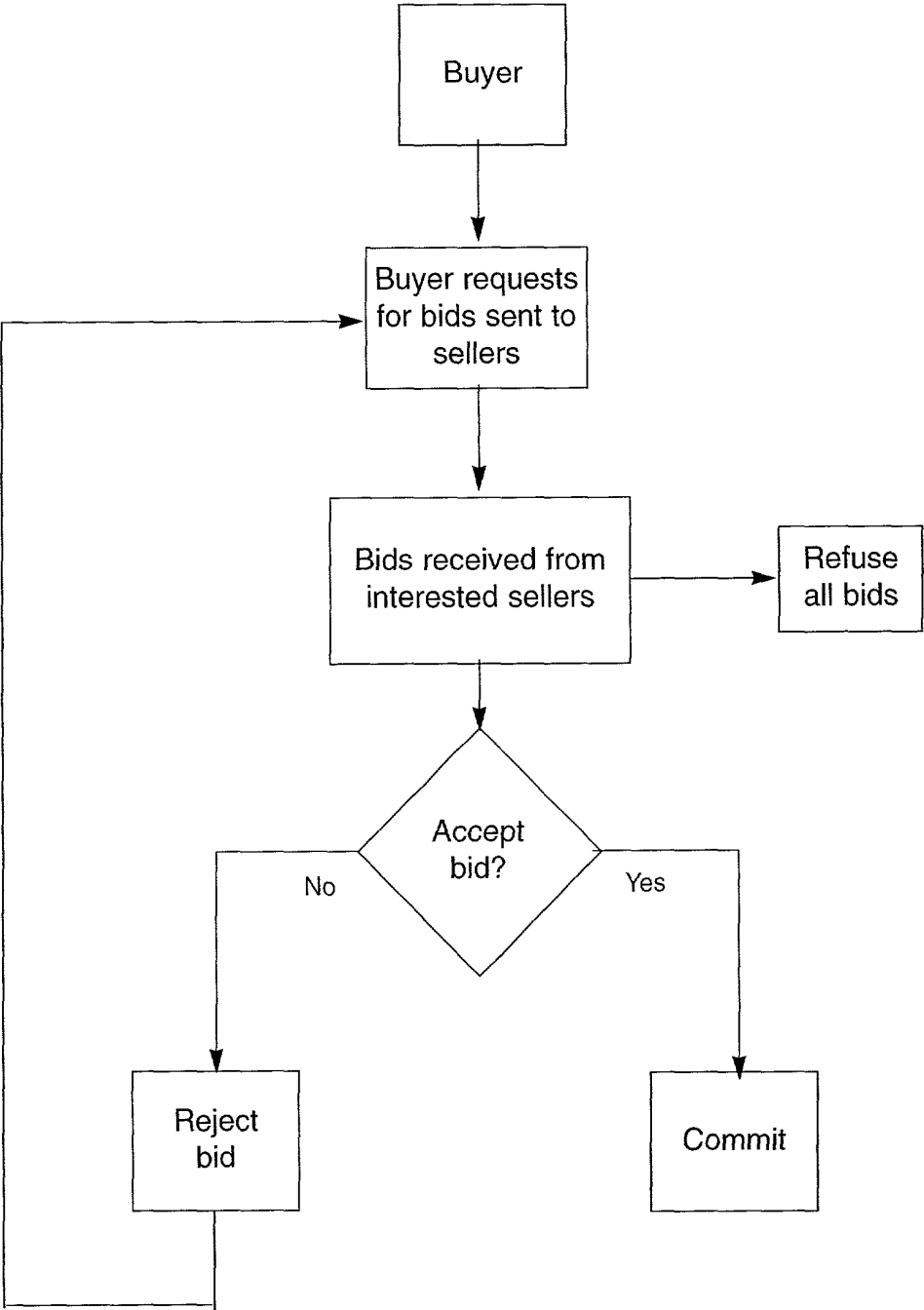


Fig. PA6: Flow Chart Of Contract Net Protocol



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Fig. PA7A: EDI As A Paper Replacement Technique

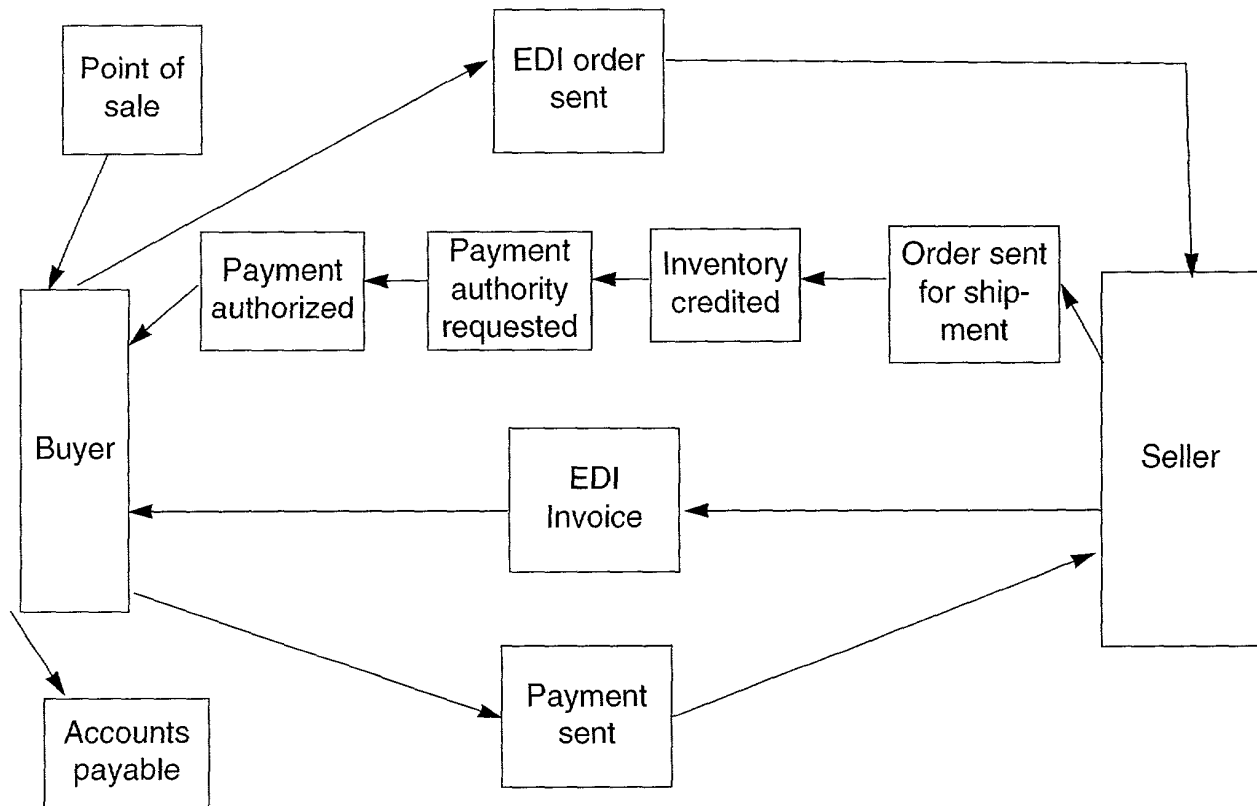
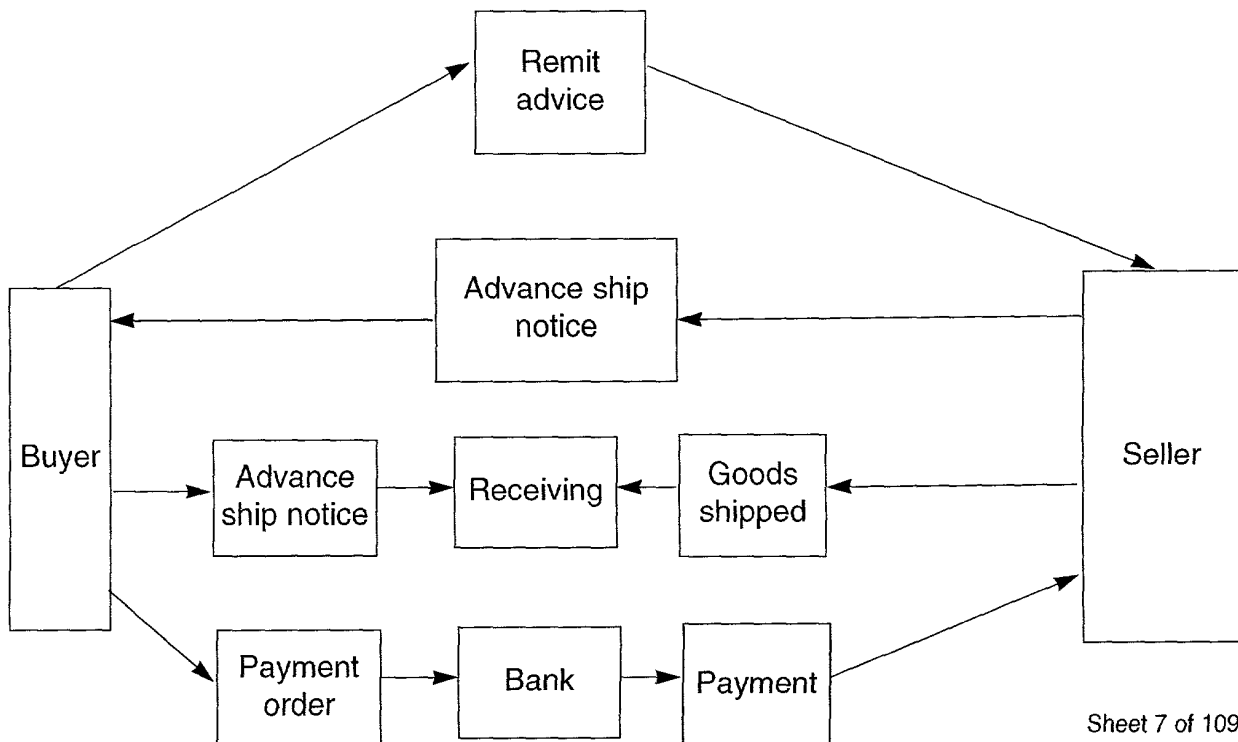


Fig. PA7B: EDI As A Process Elimination Technique



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Fig. PA8: ECN (Electronic Communications Network)

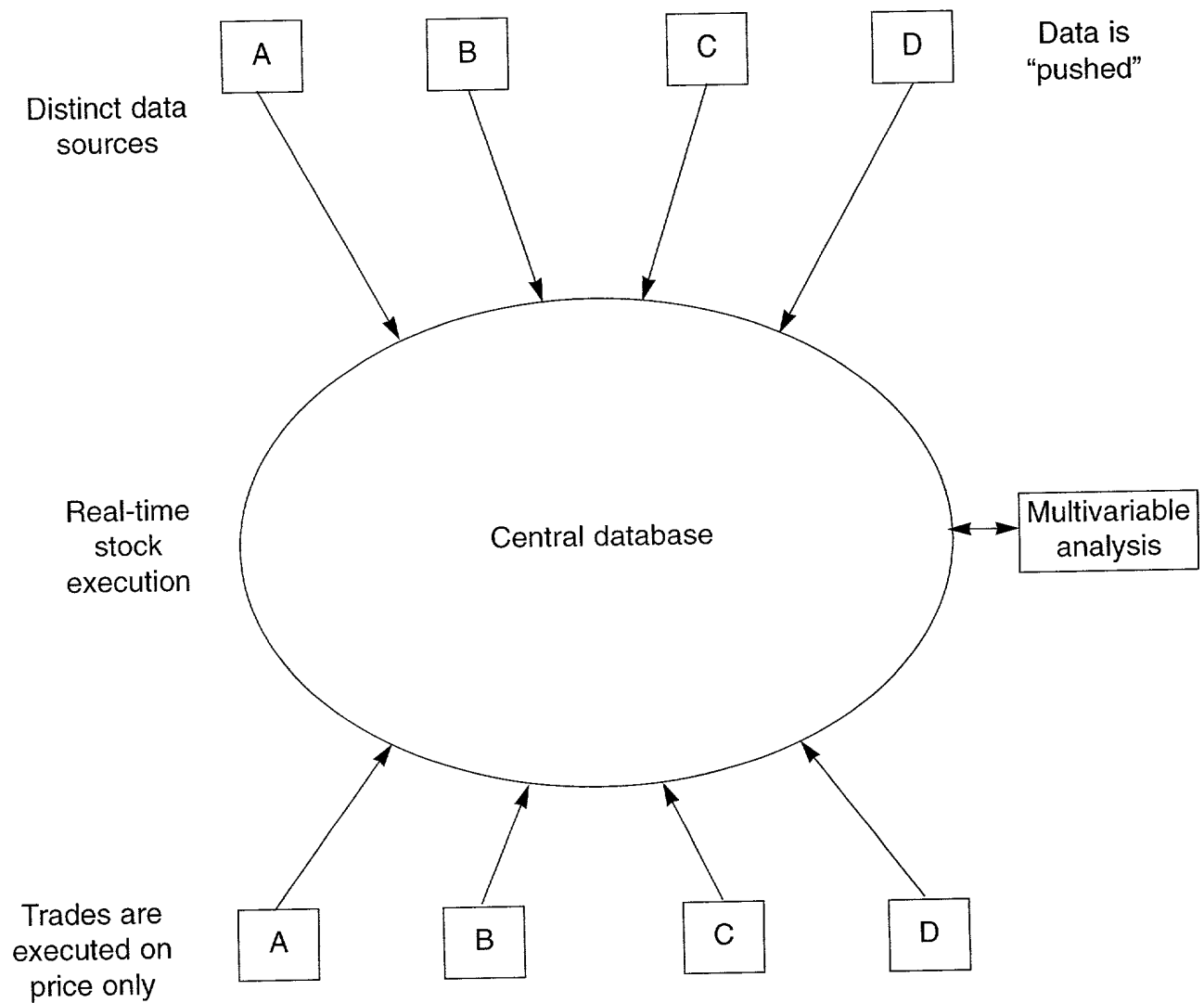


Fig. PA9A: Intermediated Demand-Initiated Procurement System

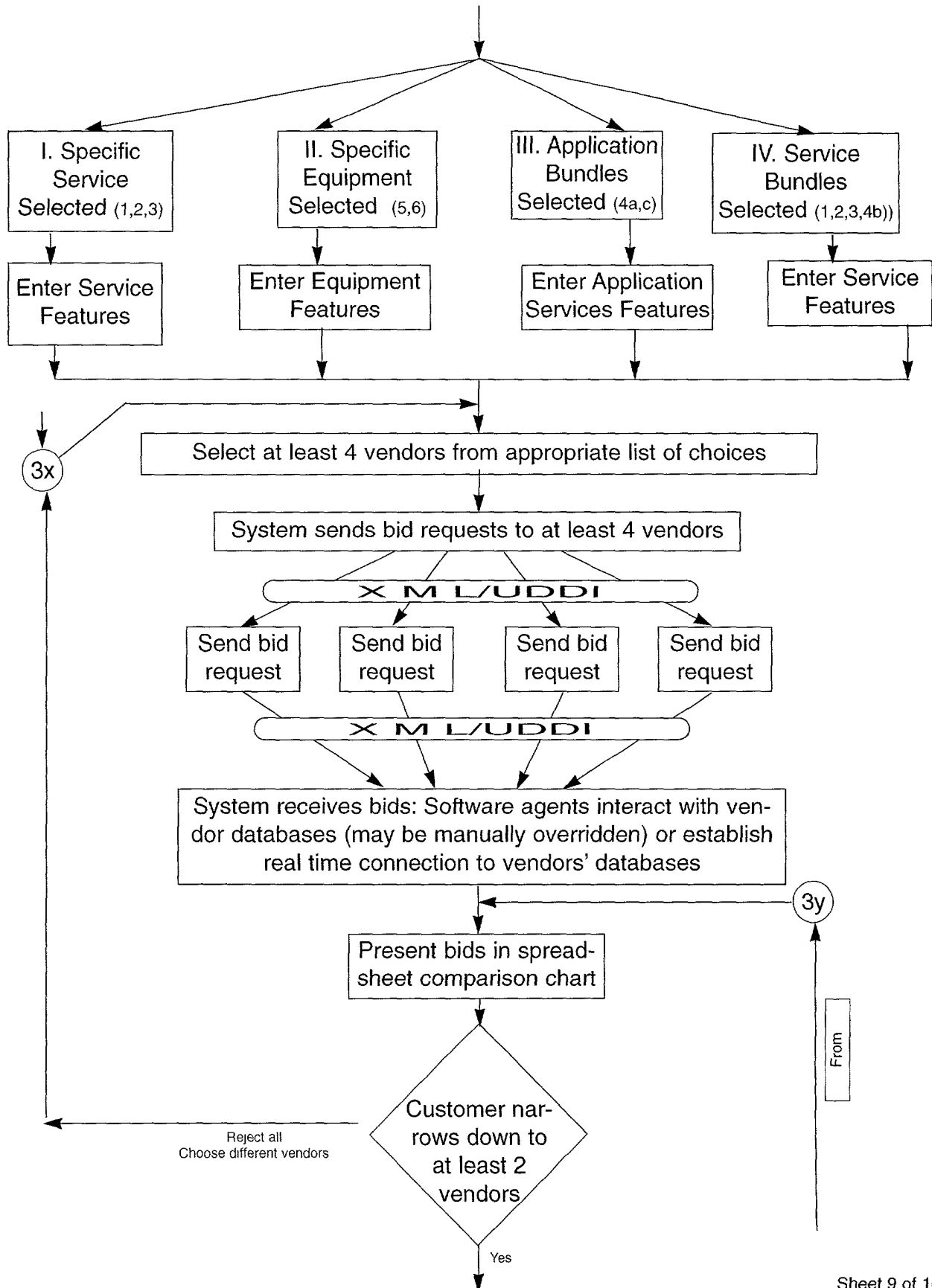


Fig. PA9B: Continued

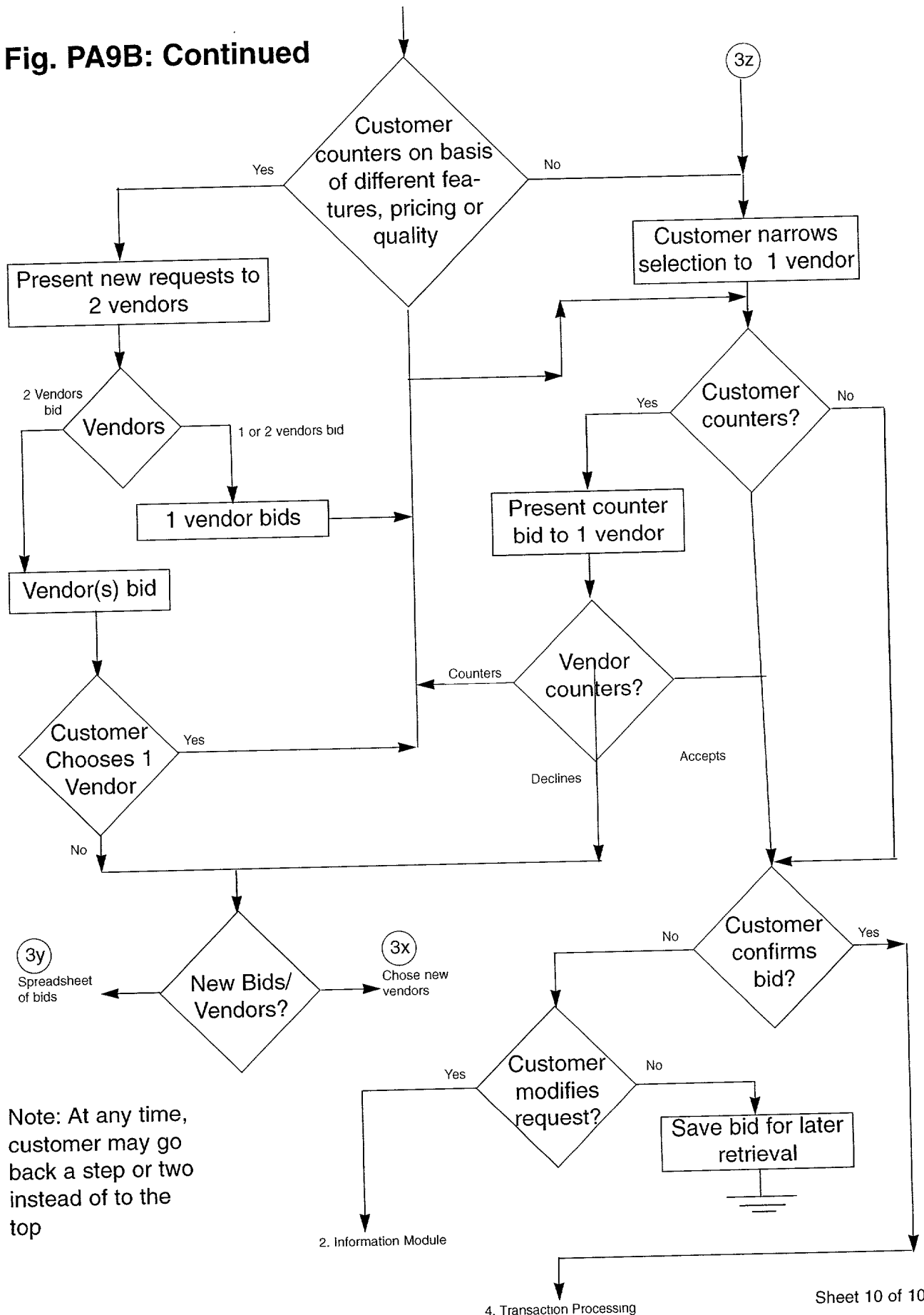


Fig. PA10: Traditional Supply Chain & Customer Relationships

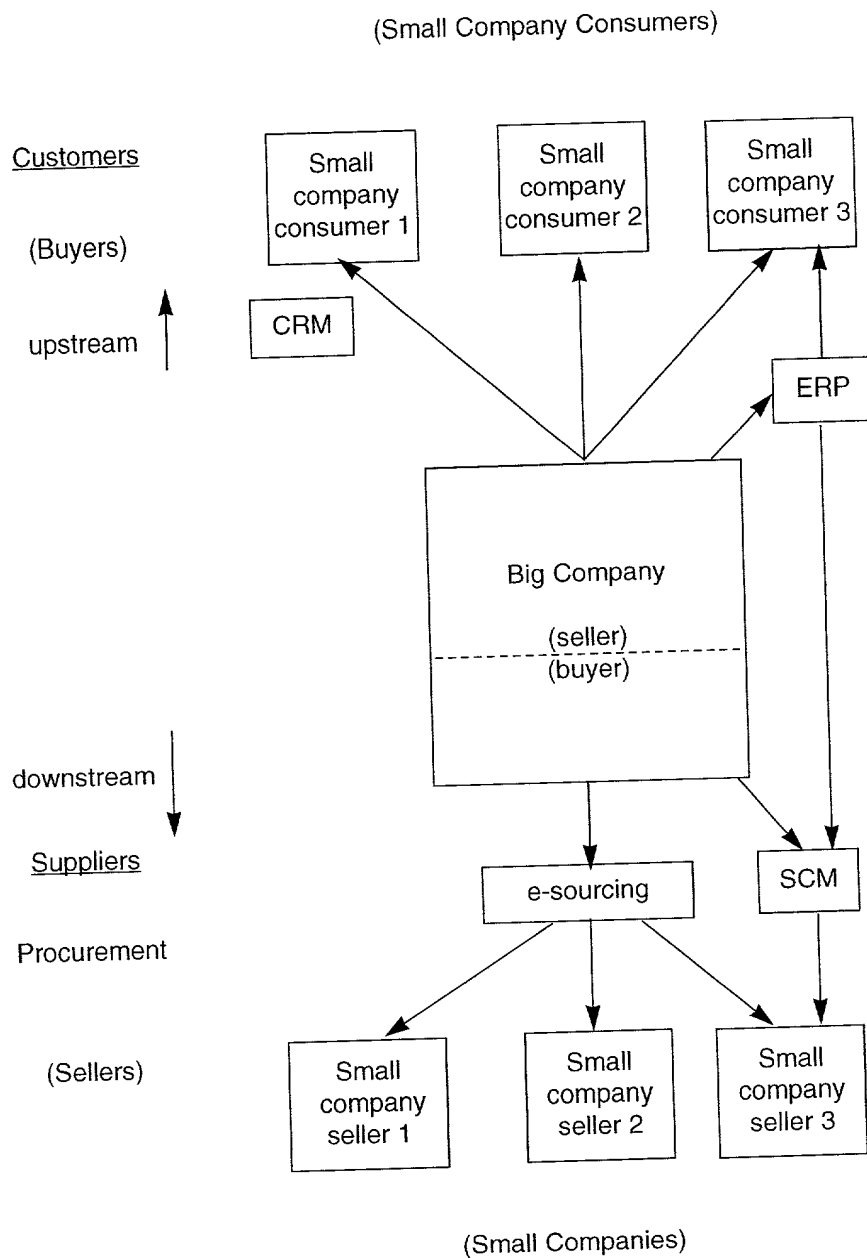


Fig. PA11: Traditional Search Technology

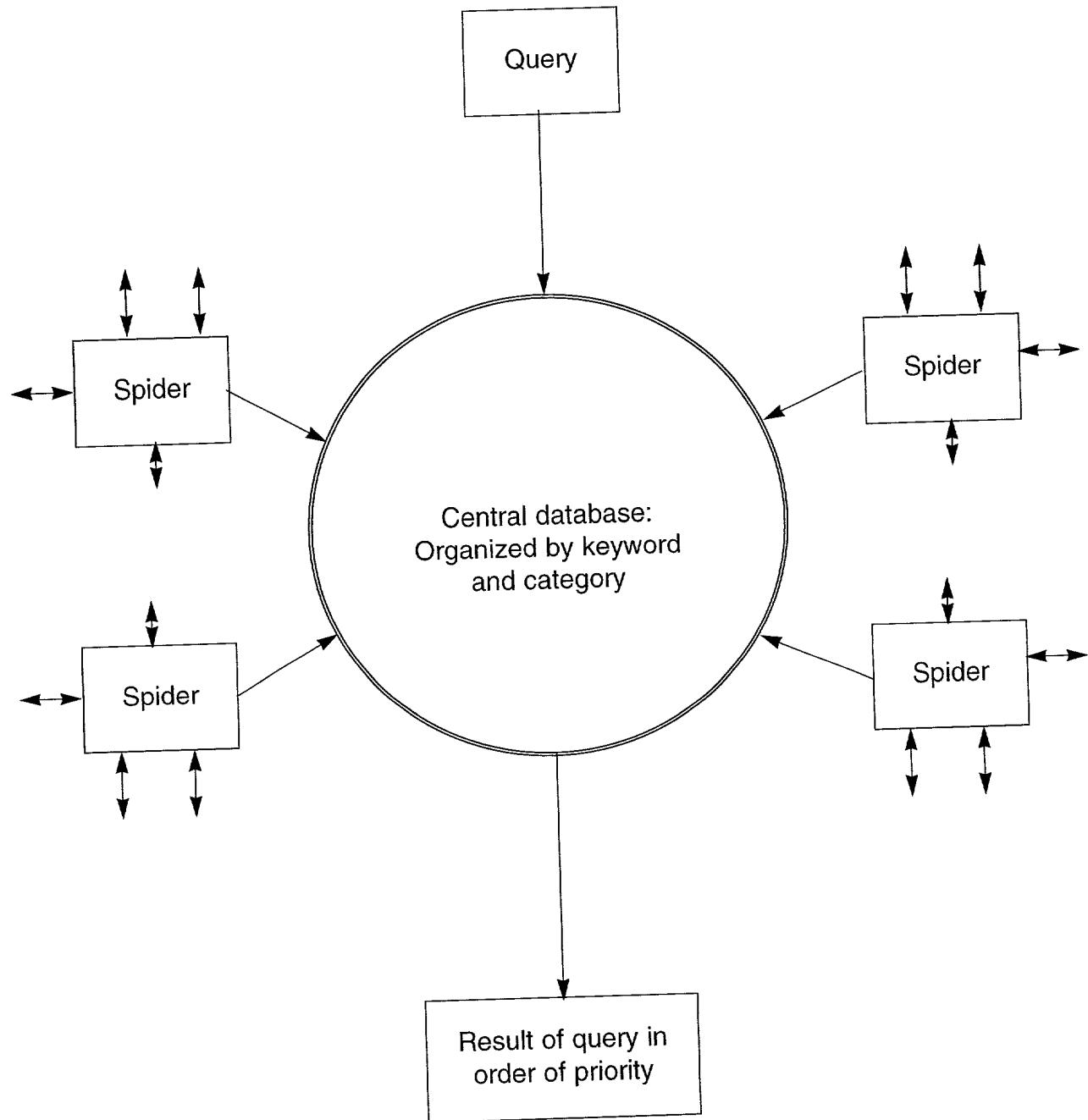


Fig. PA12: Distributed Search Approach

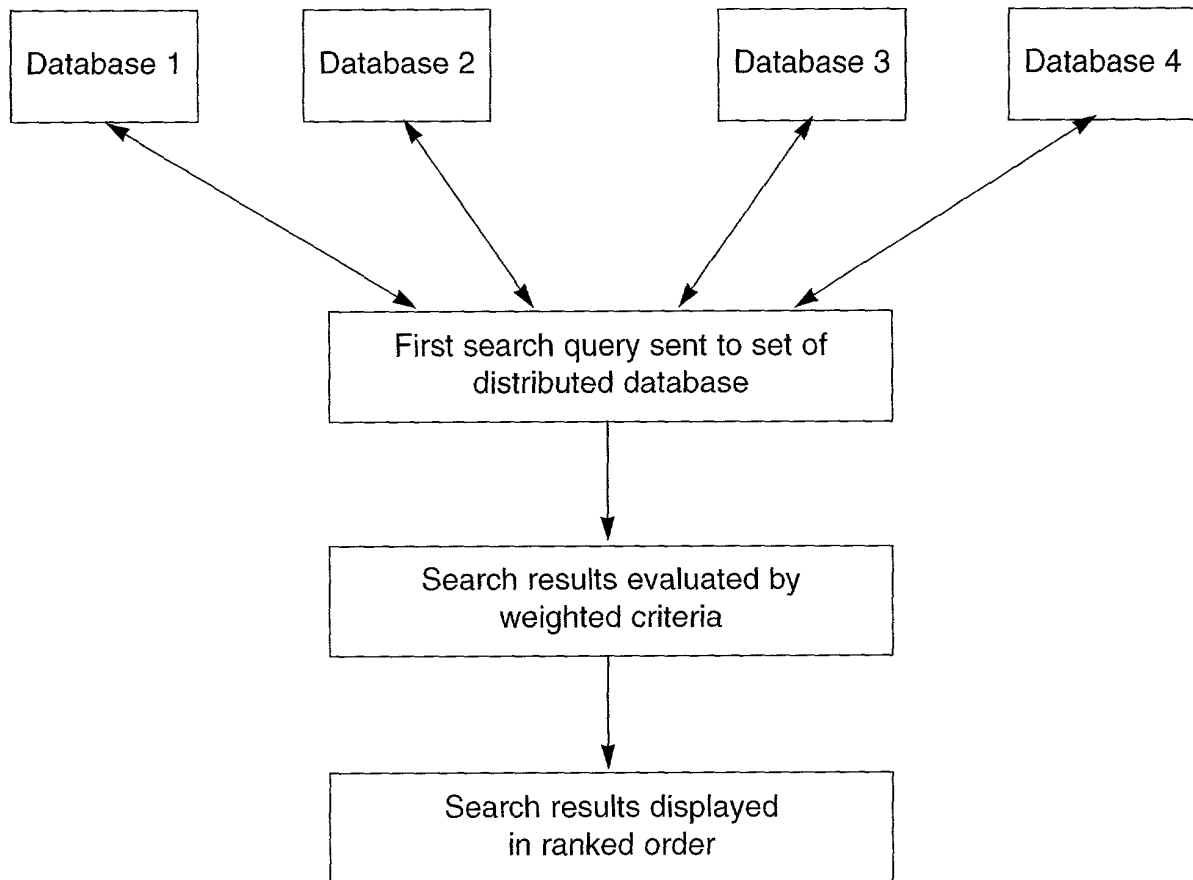
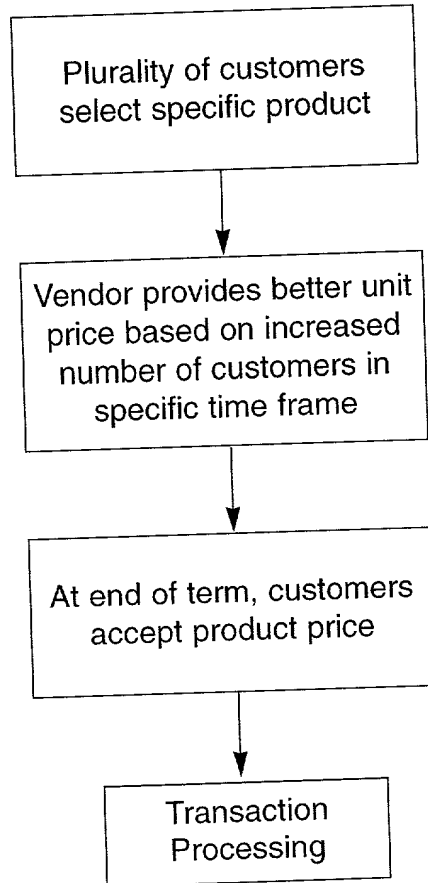


Fig. PA13: Traditional Aggregation



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Fig. PA14: Intermediated Option Contracts

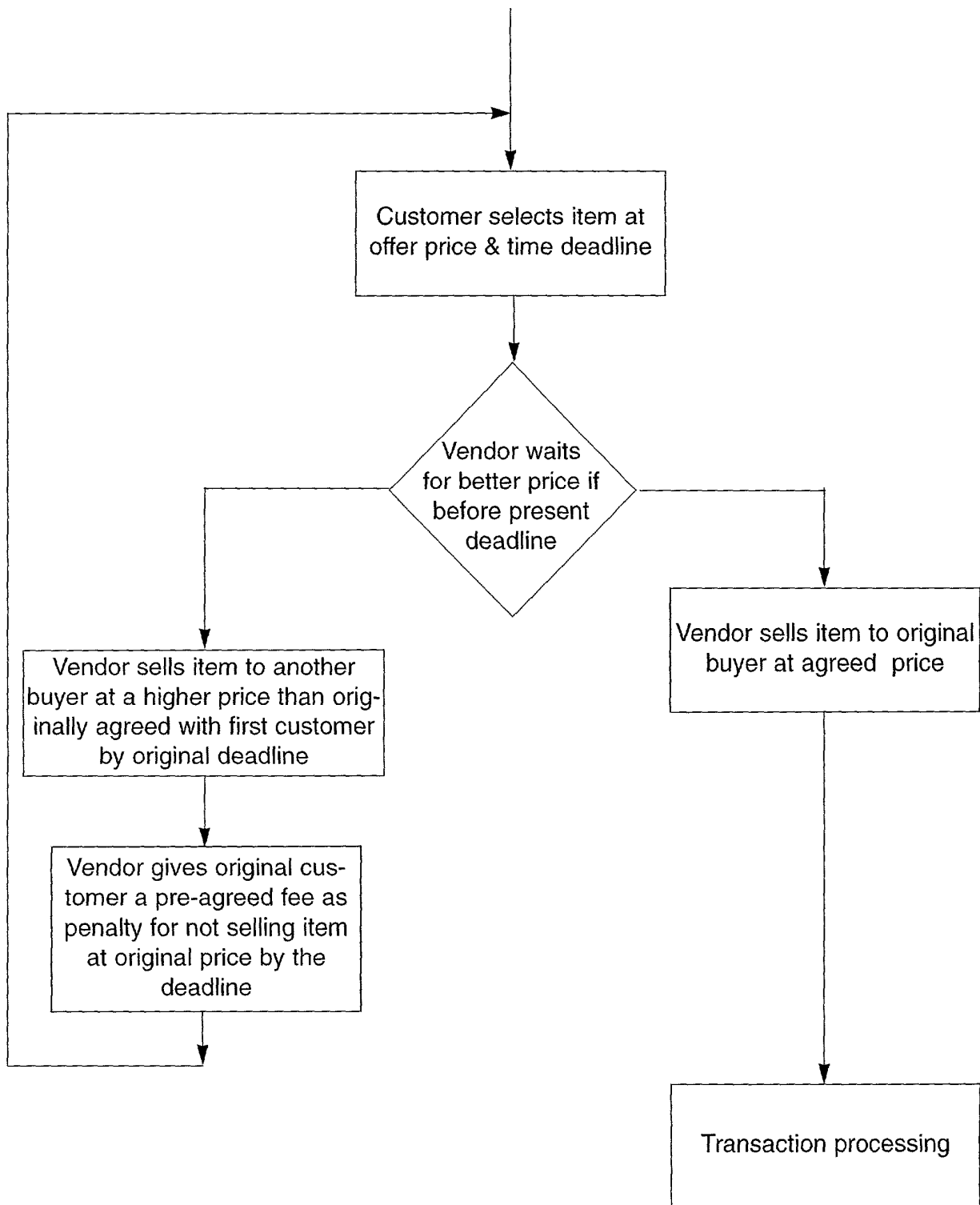


Fig. 1: CCN Architecture

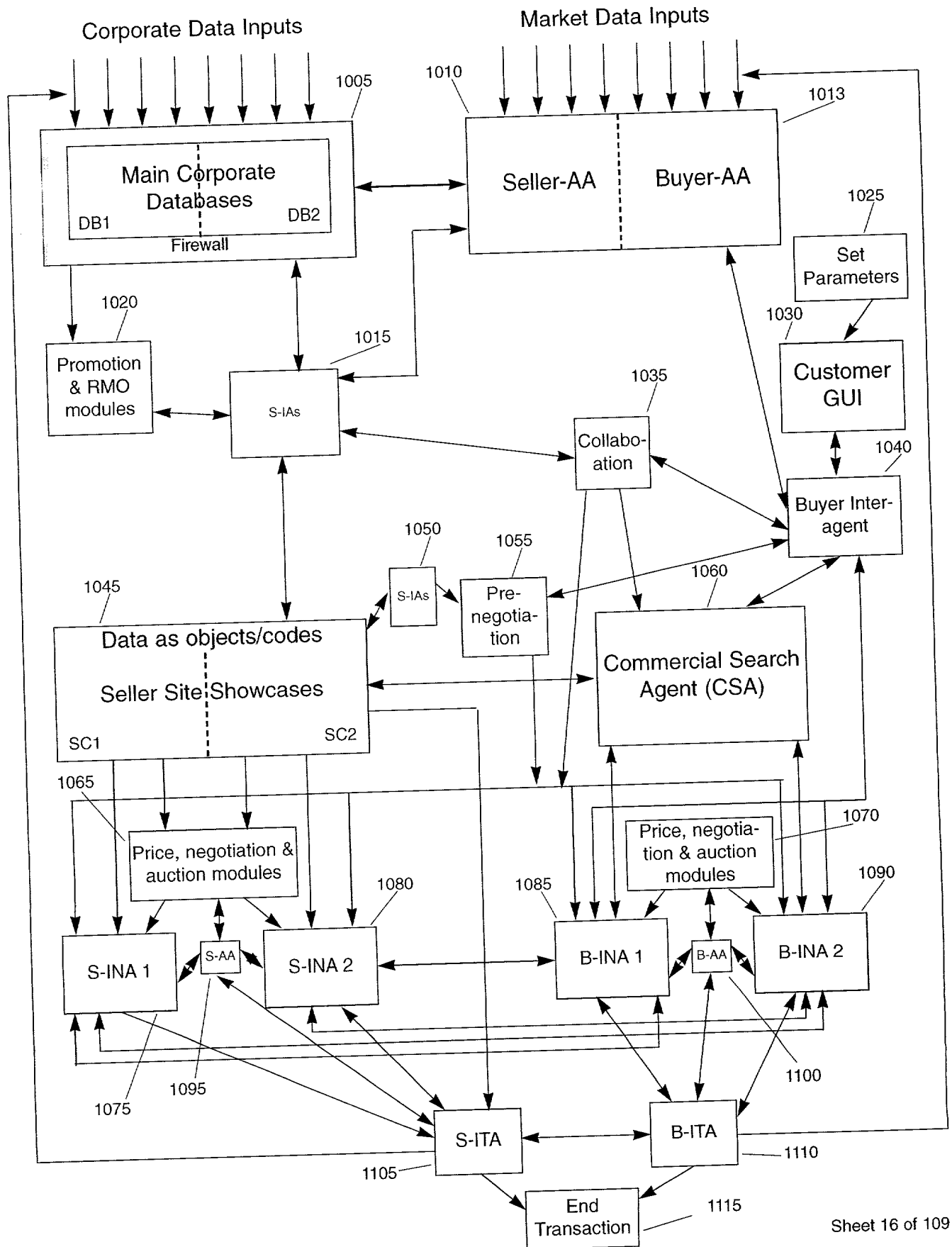


Fig. 2: CCN System Layers

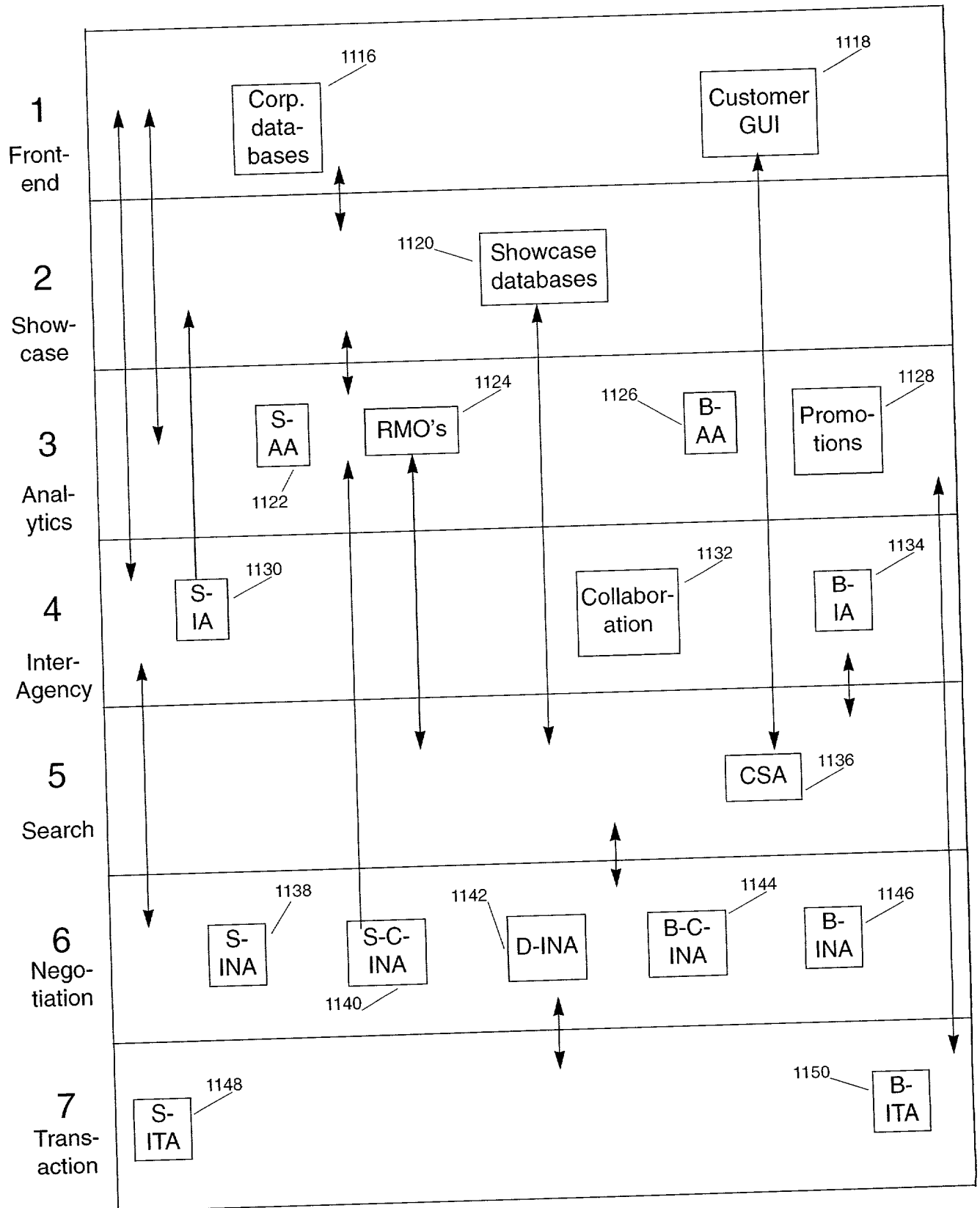


Fig. 3: Showcase Database System

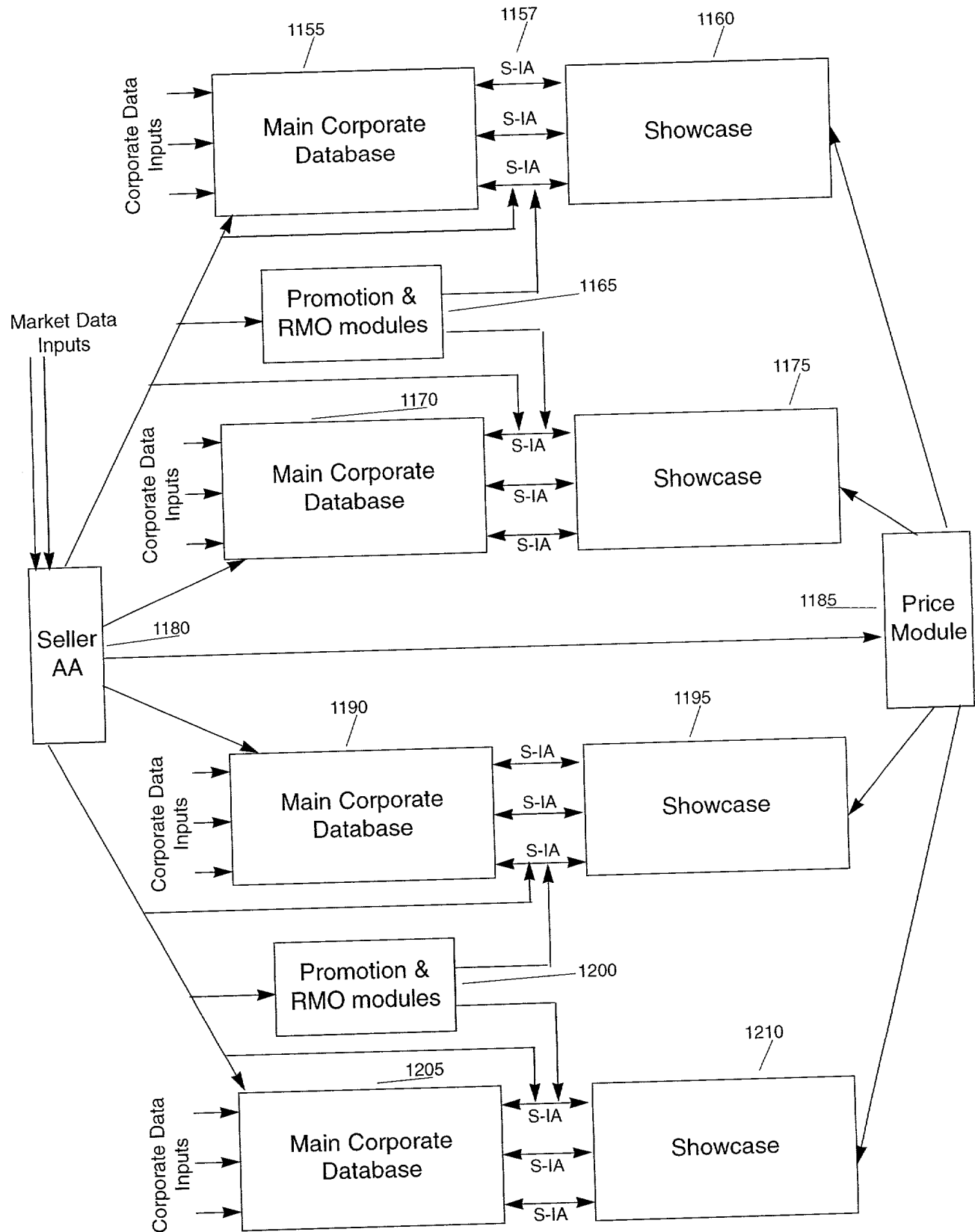
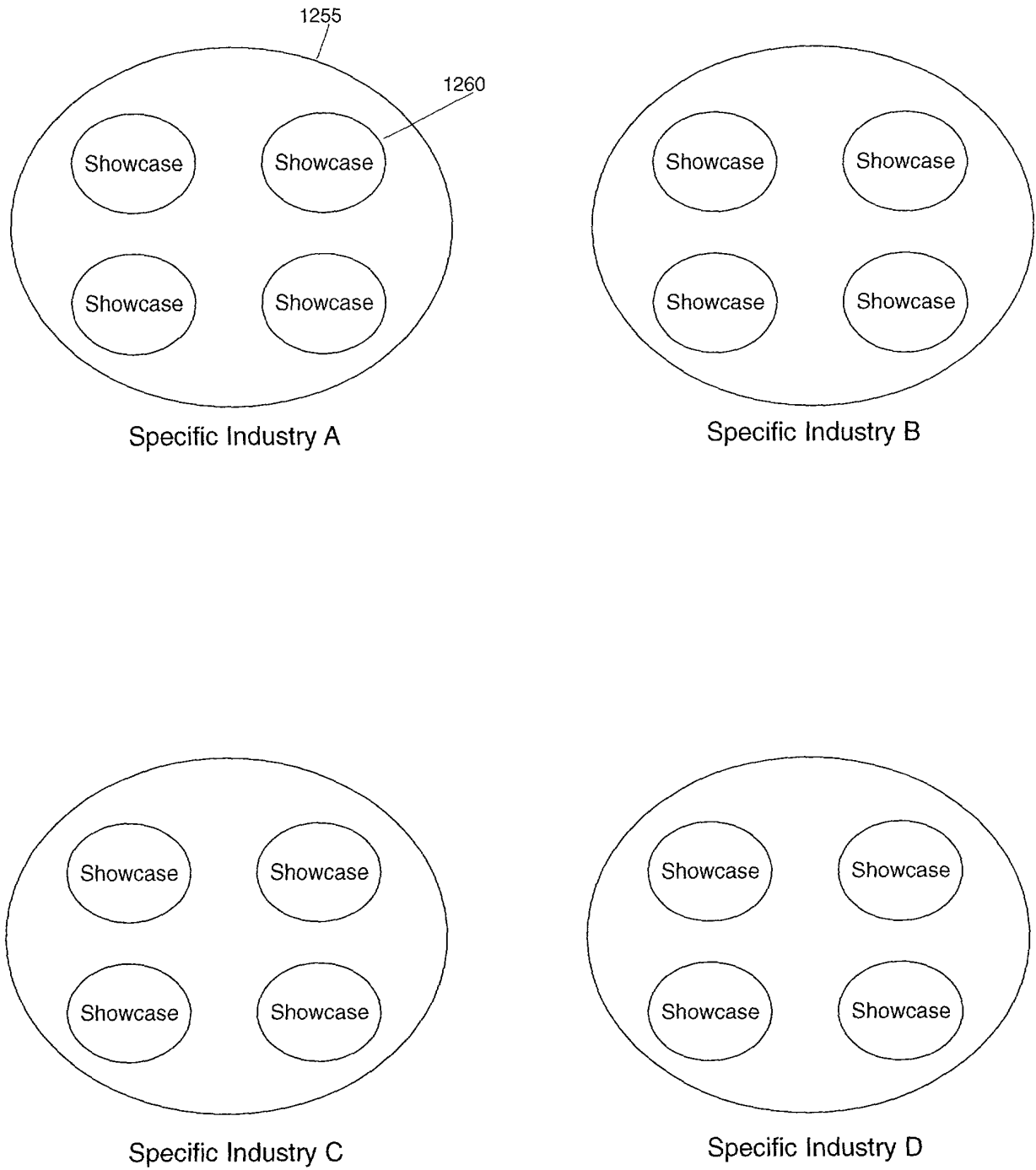


Fig. 4: Multiple Vertical Databases



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Fig. 6: Showcase Database Operation

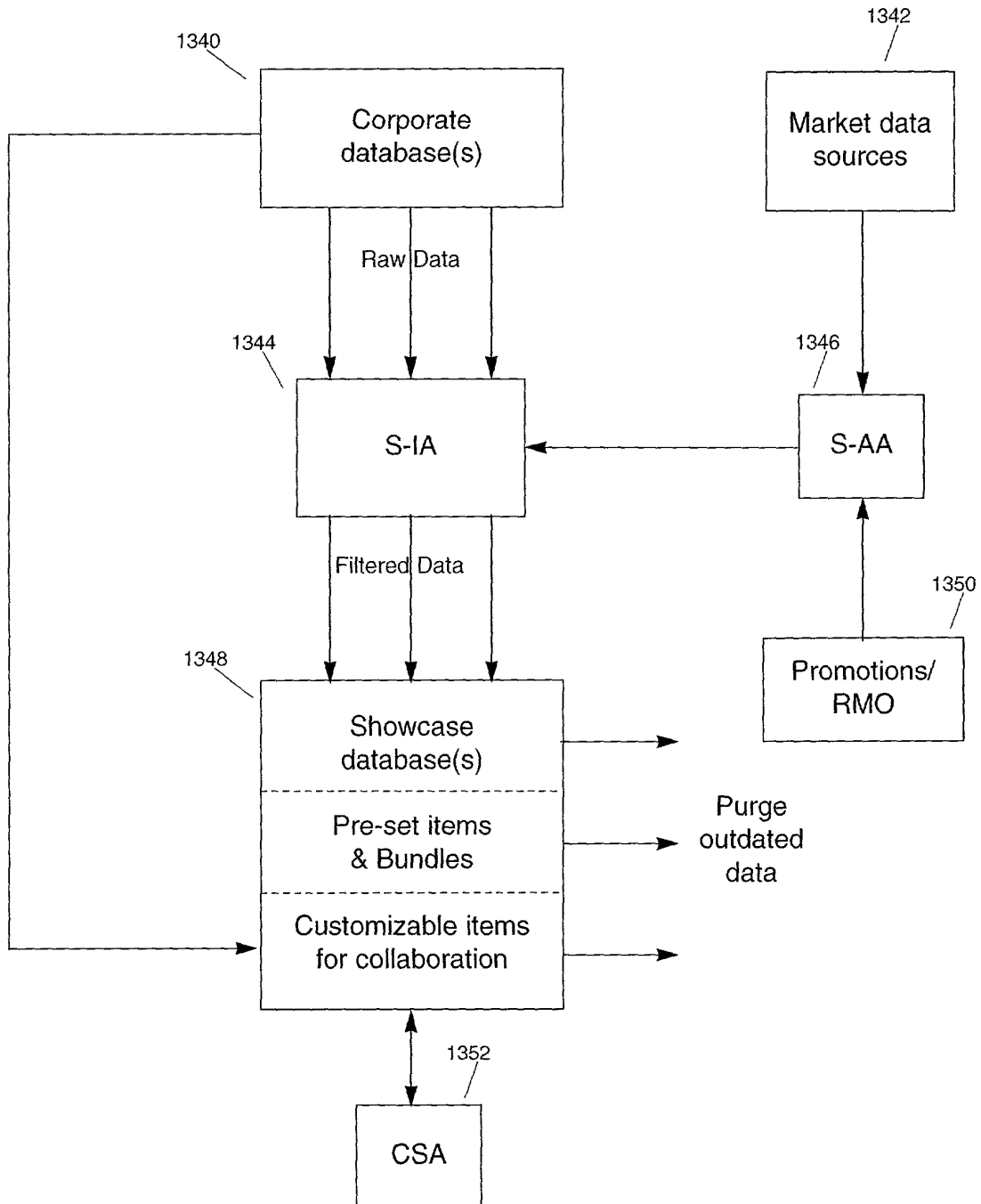


Fig. 7: Showcase Data Flow

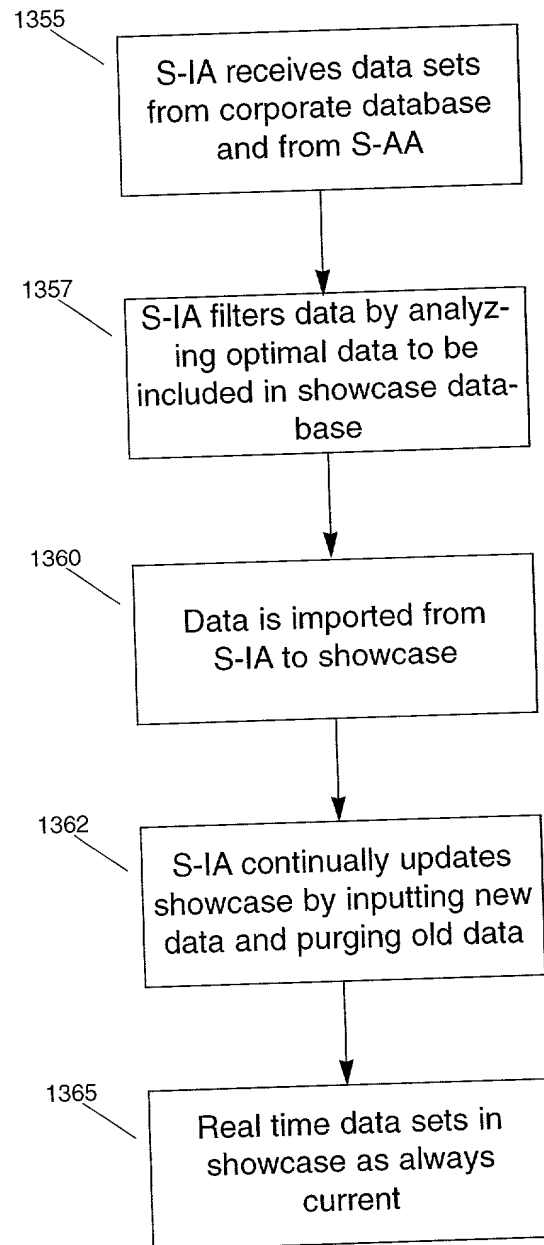


Fig. 8: Inter-agent System Architecture

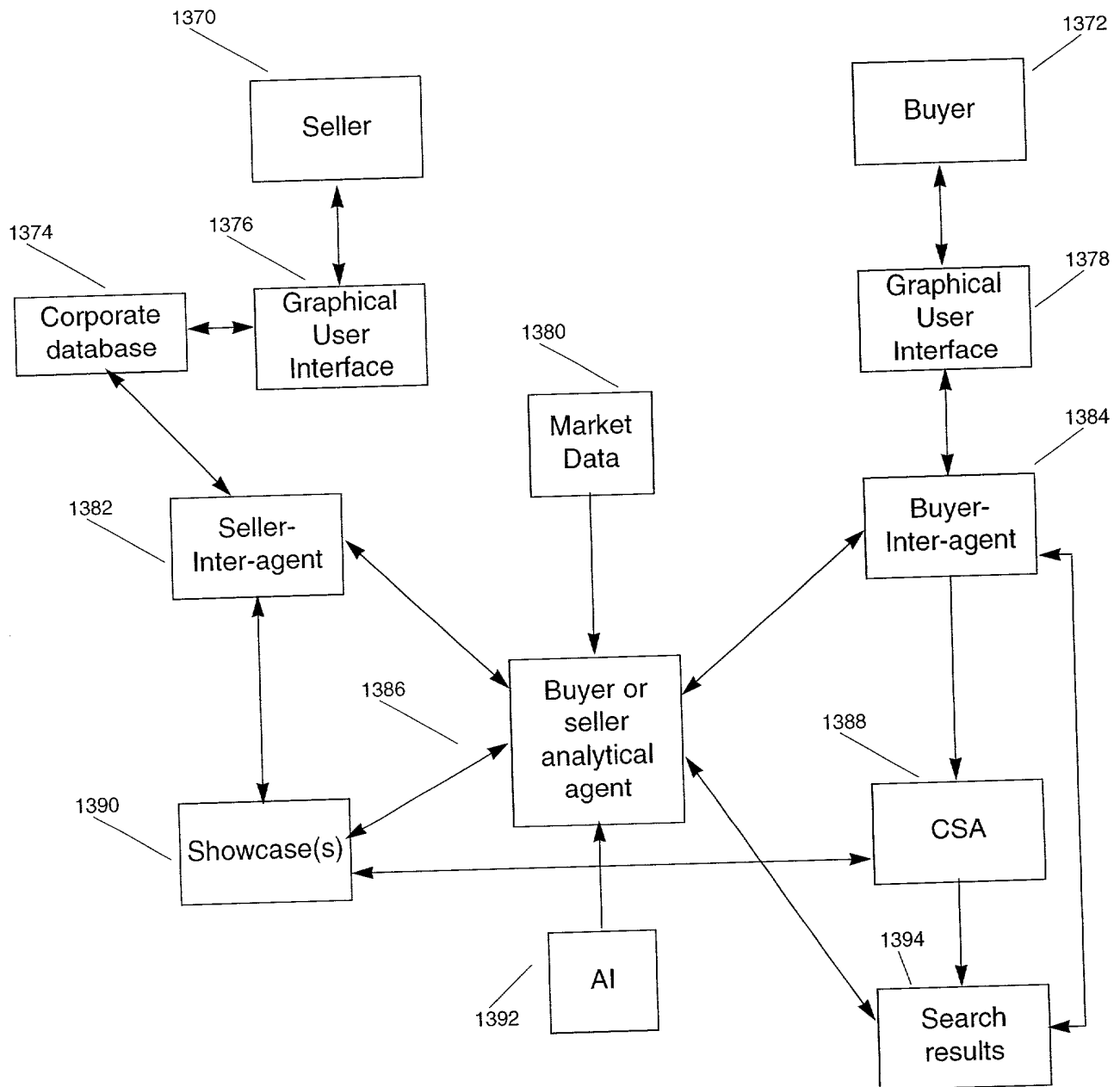


Fig. 9: Rivers of Data Flows

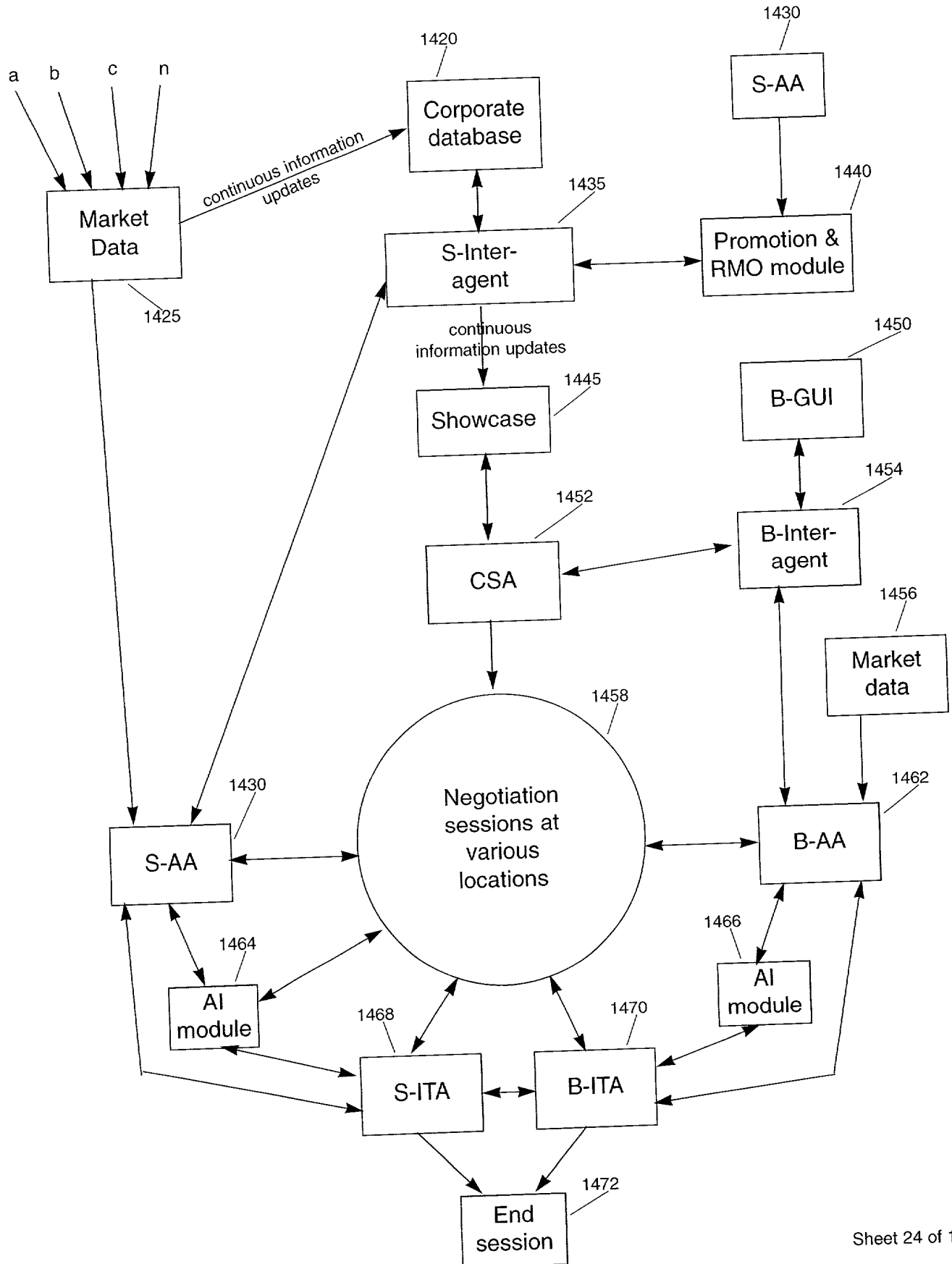


Fig. 10: CSA System Architecture

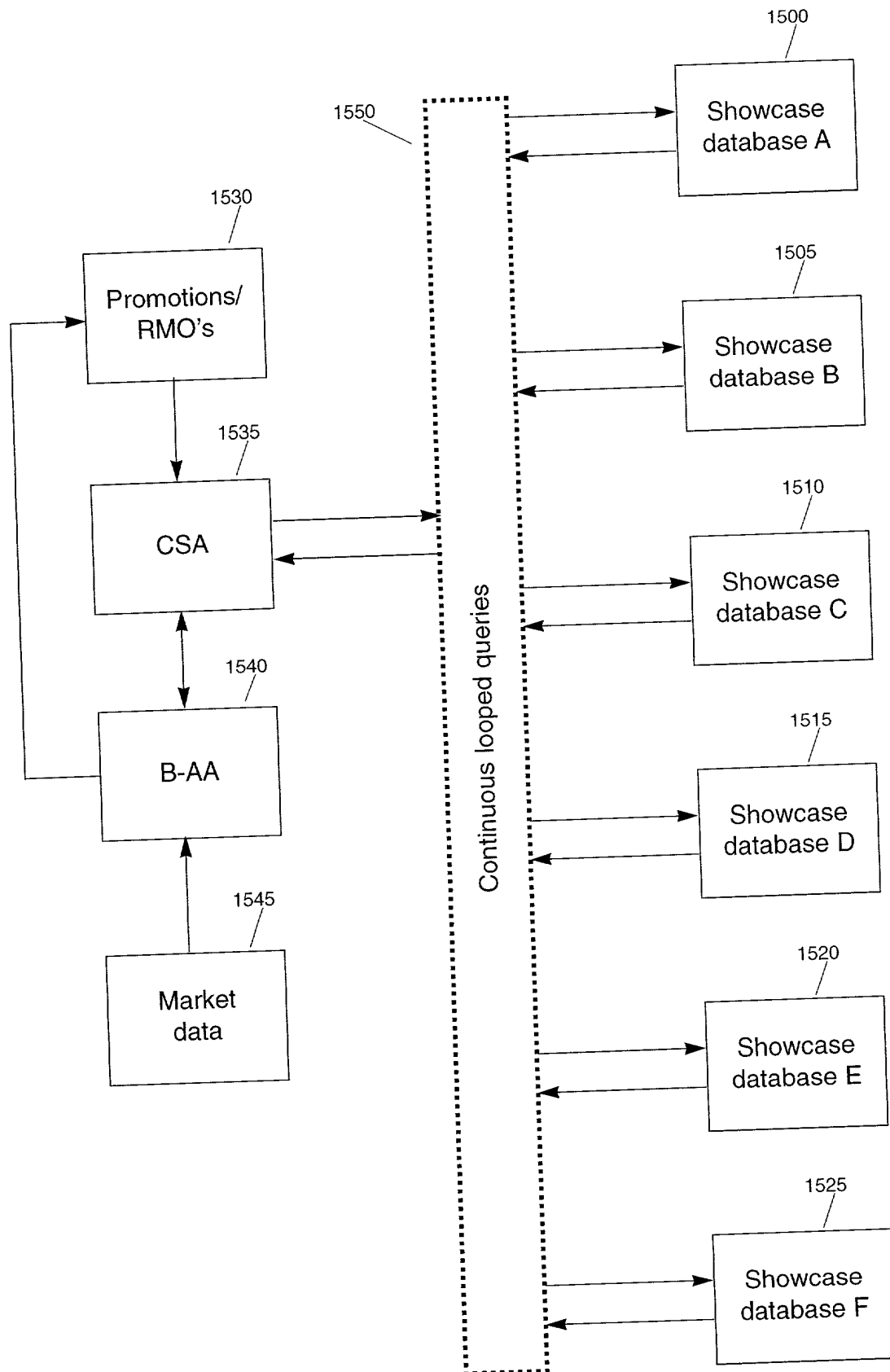


Fig. 11: CSA First Query Sequence

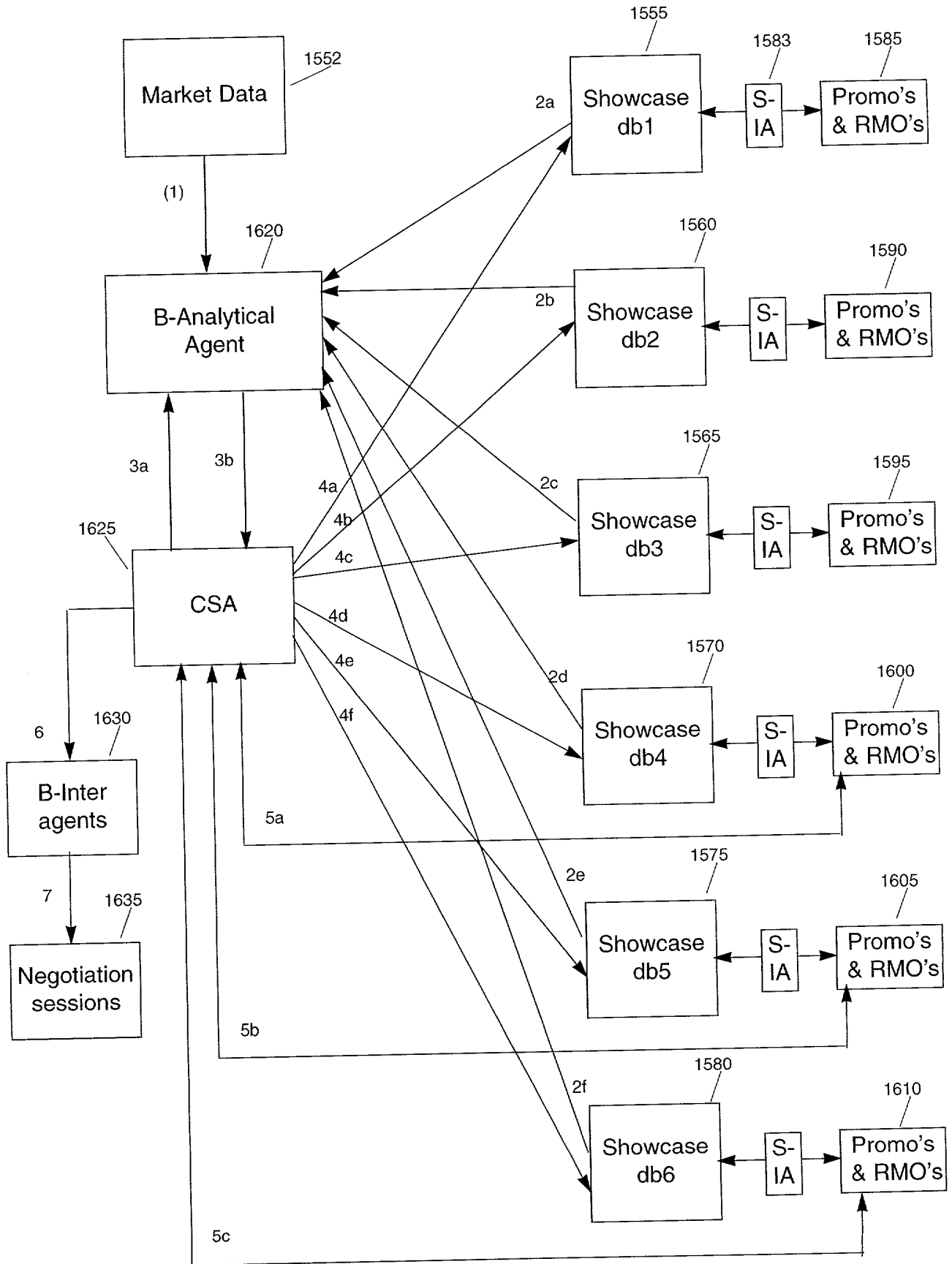


Fig. 12: Programmability of CSAs for Priorities of Search

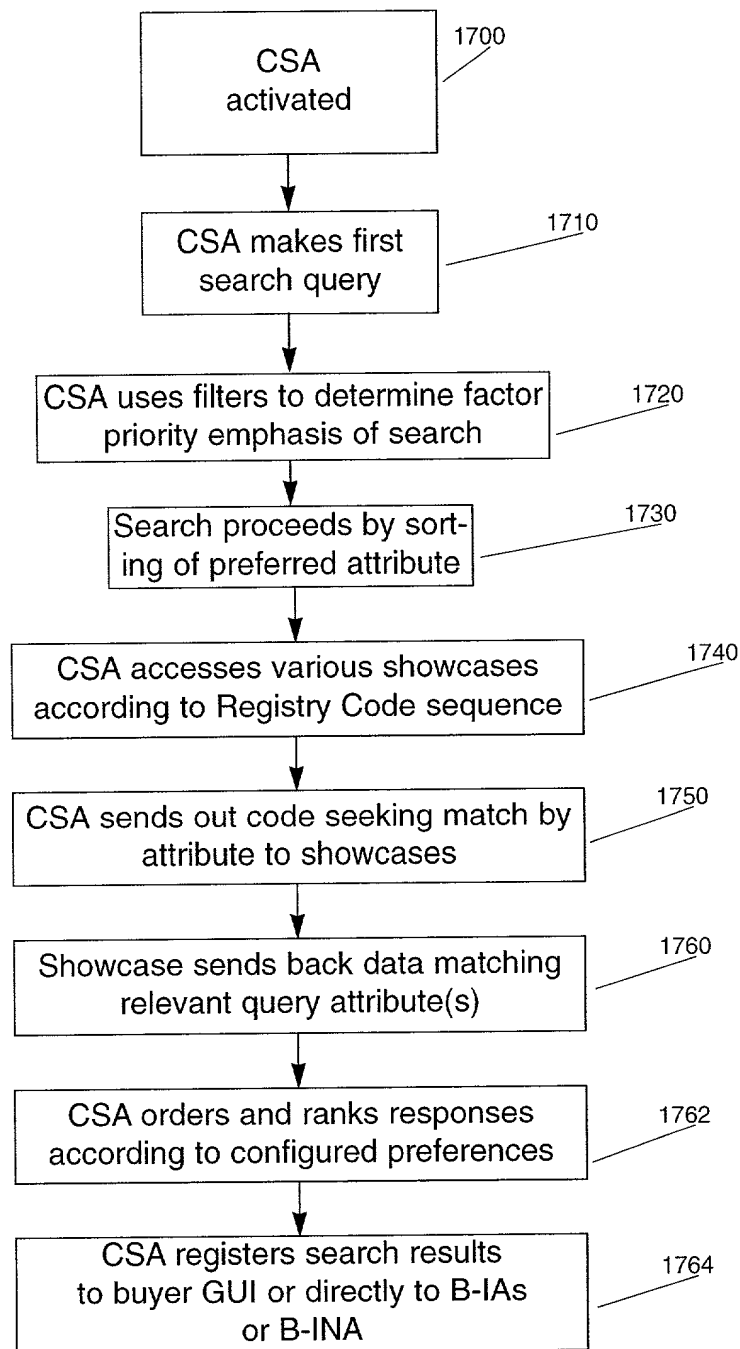


Fig. 13: CSA As Initial Search Query

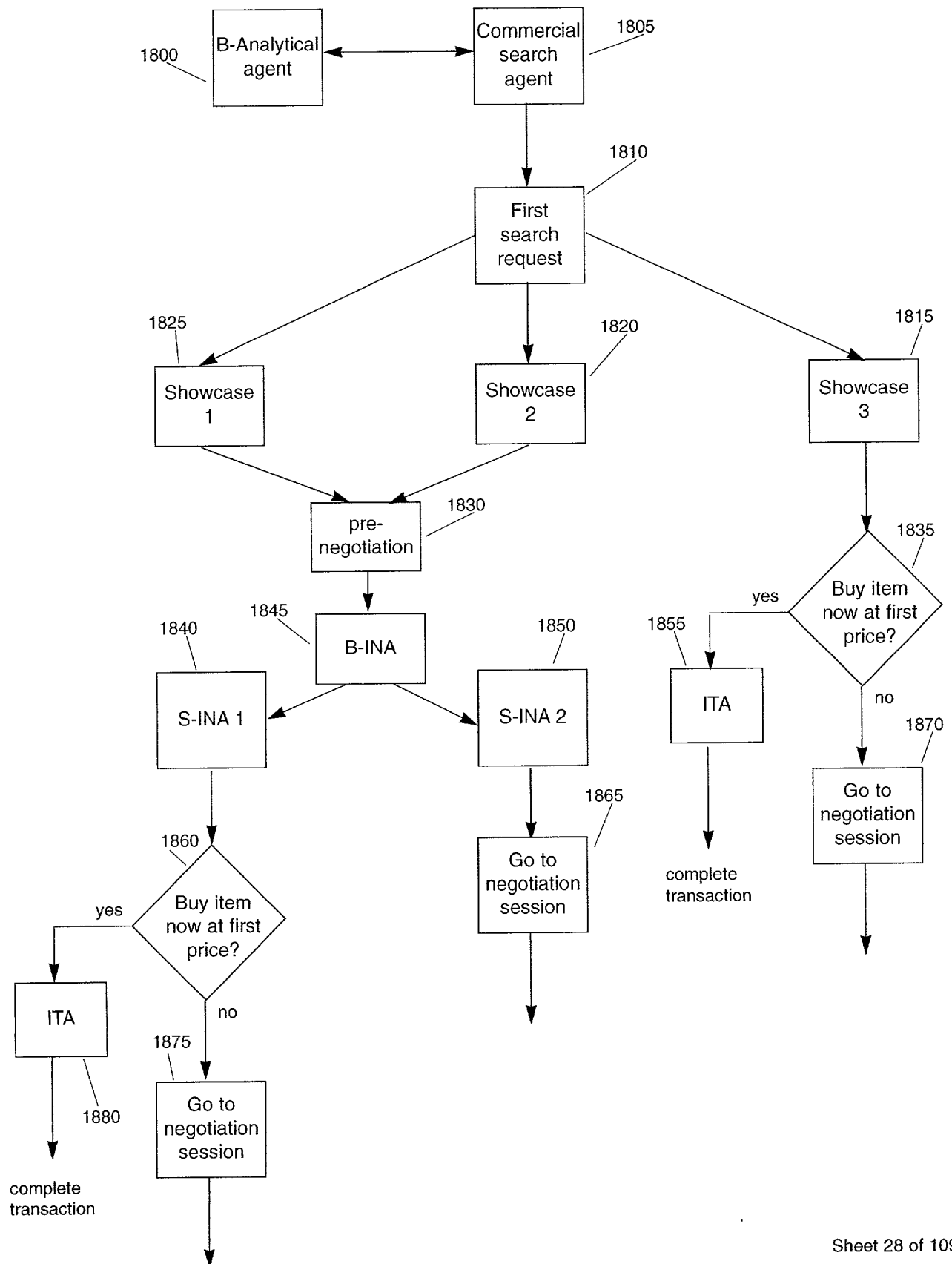


Fig. 14: CSA Filters

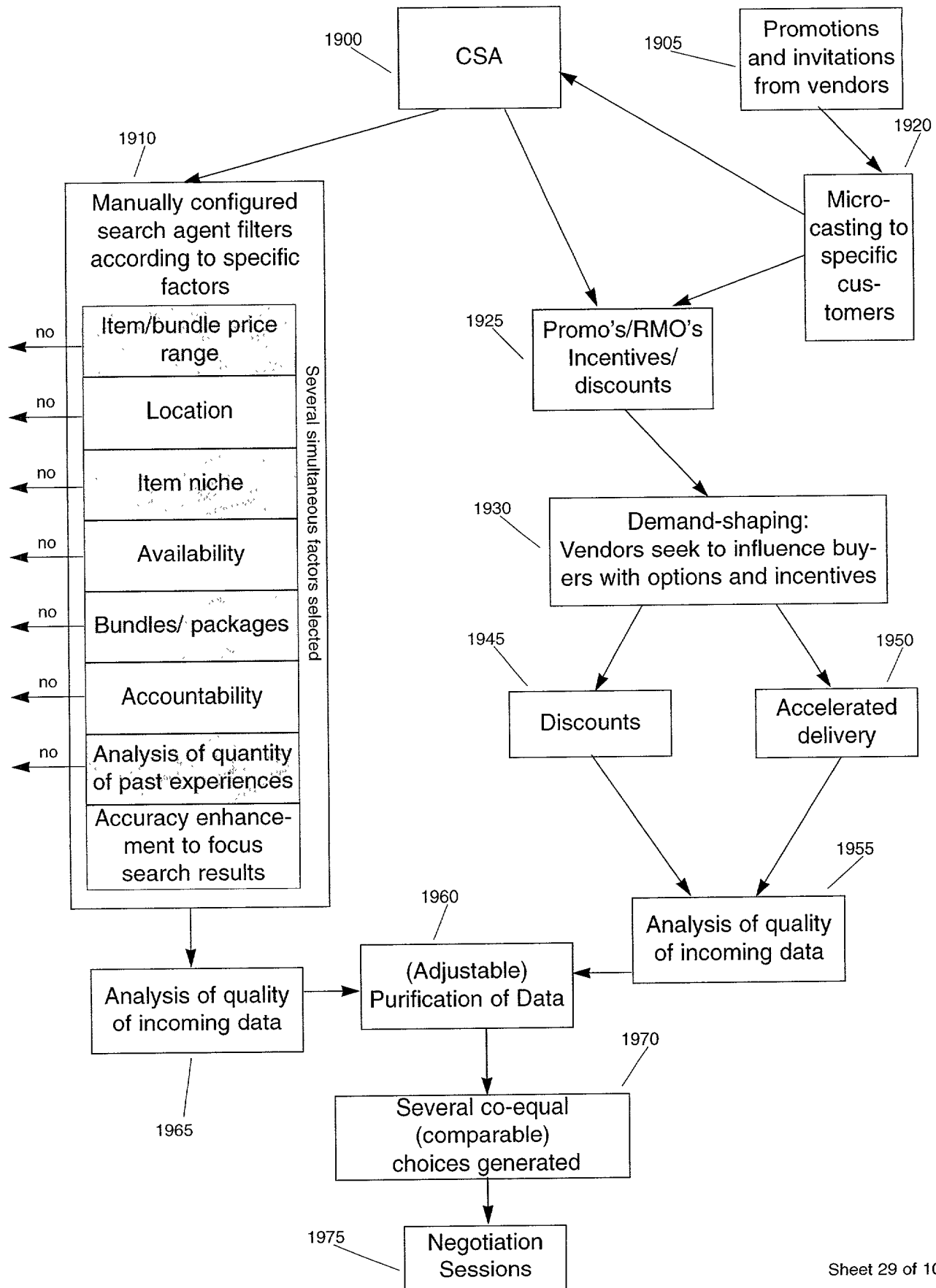


Fig. 15: Promotions

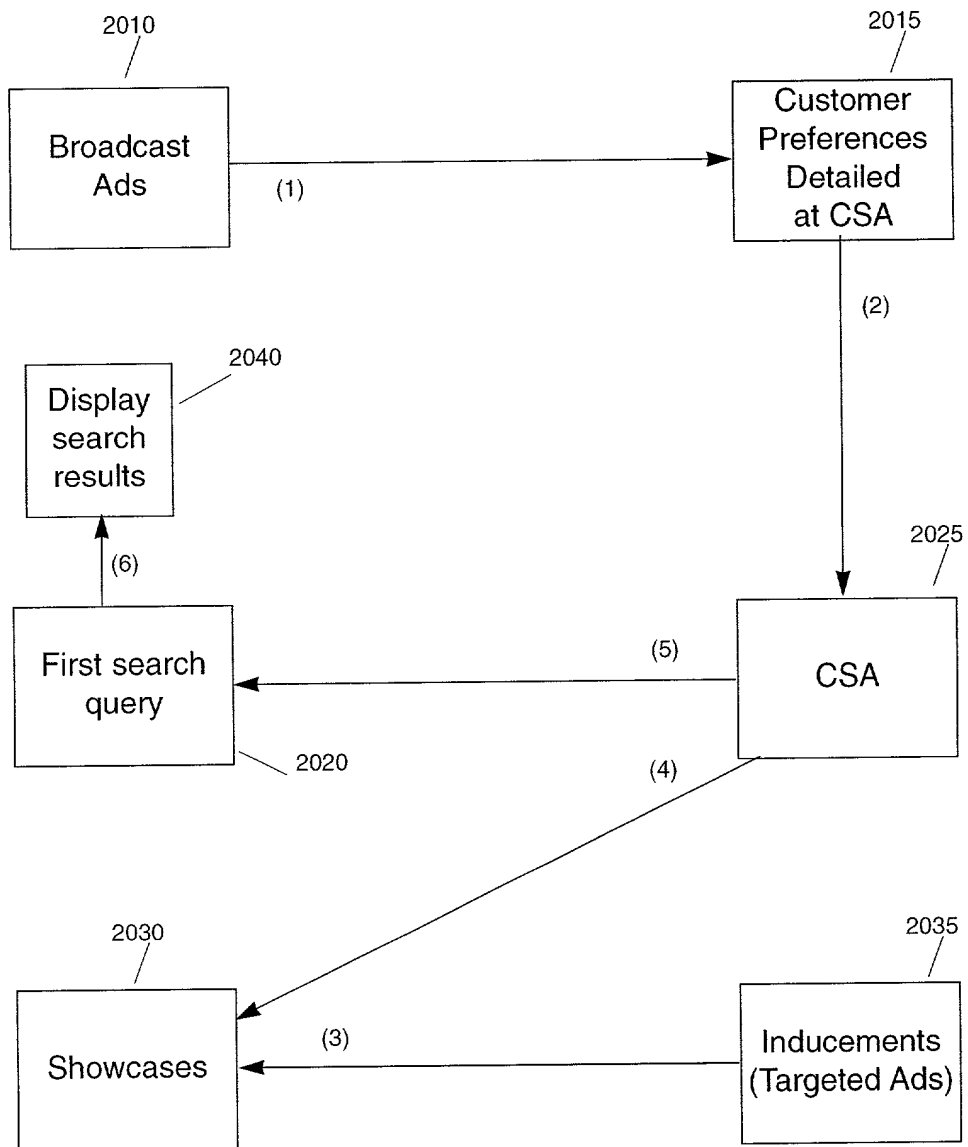


Fig. 16: Proximity Marketing For Mobile INAs

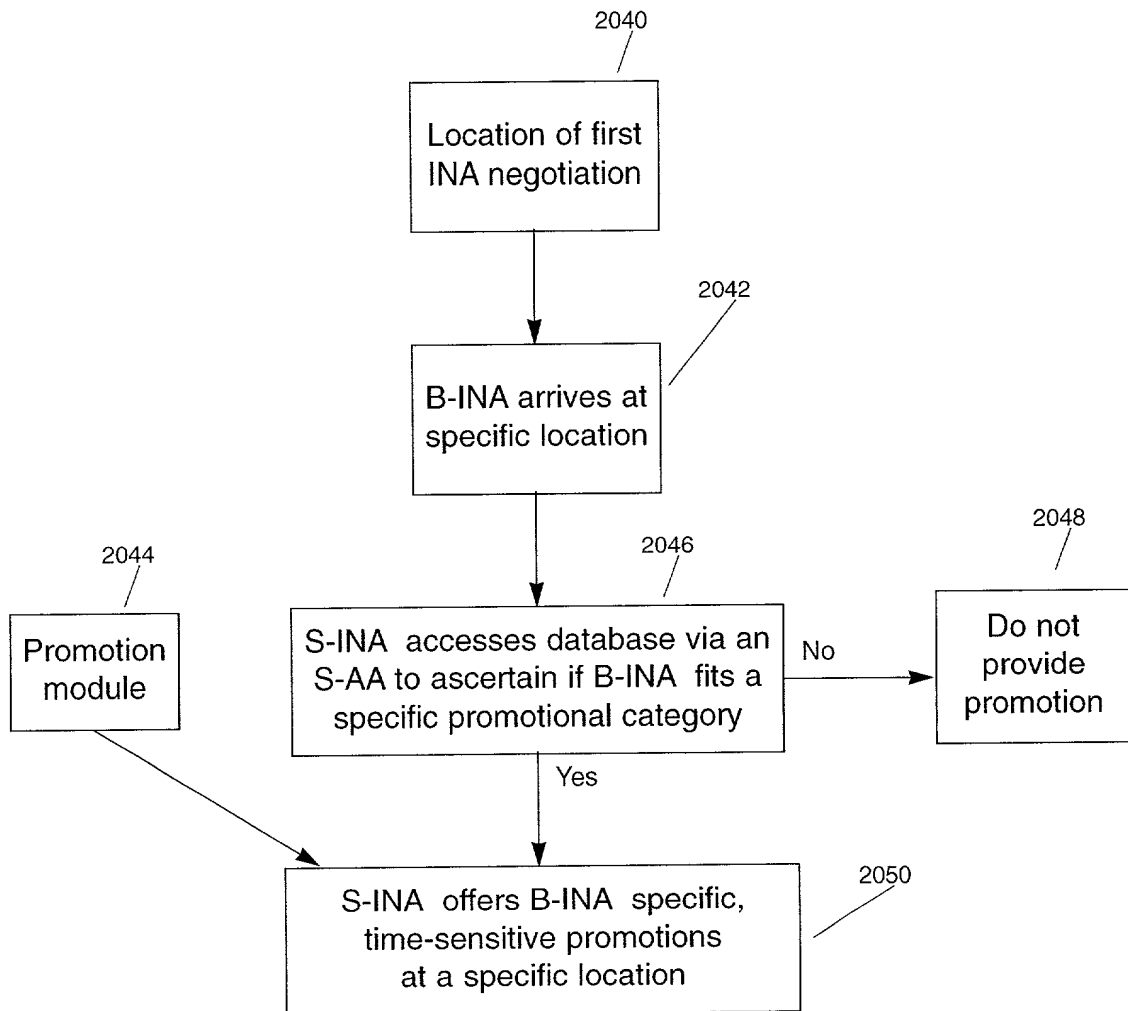


Fig. 17: Promotional Discounting

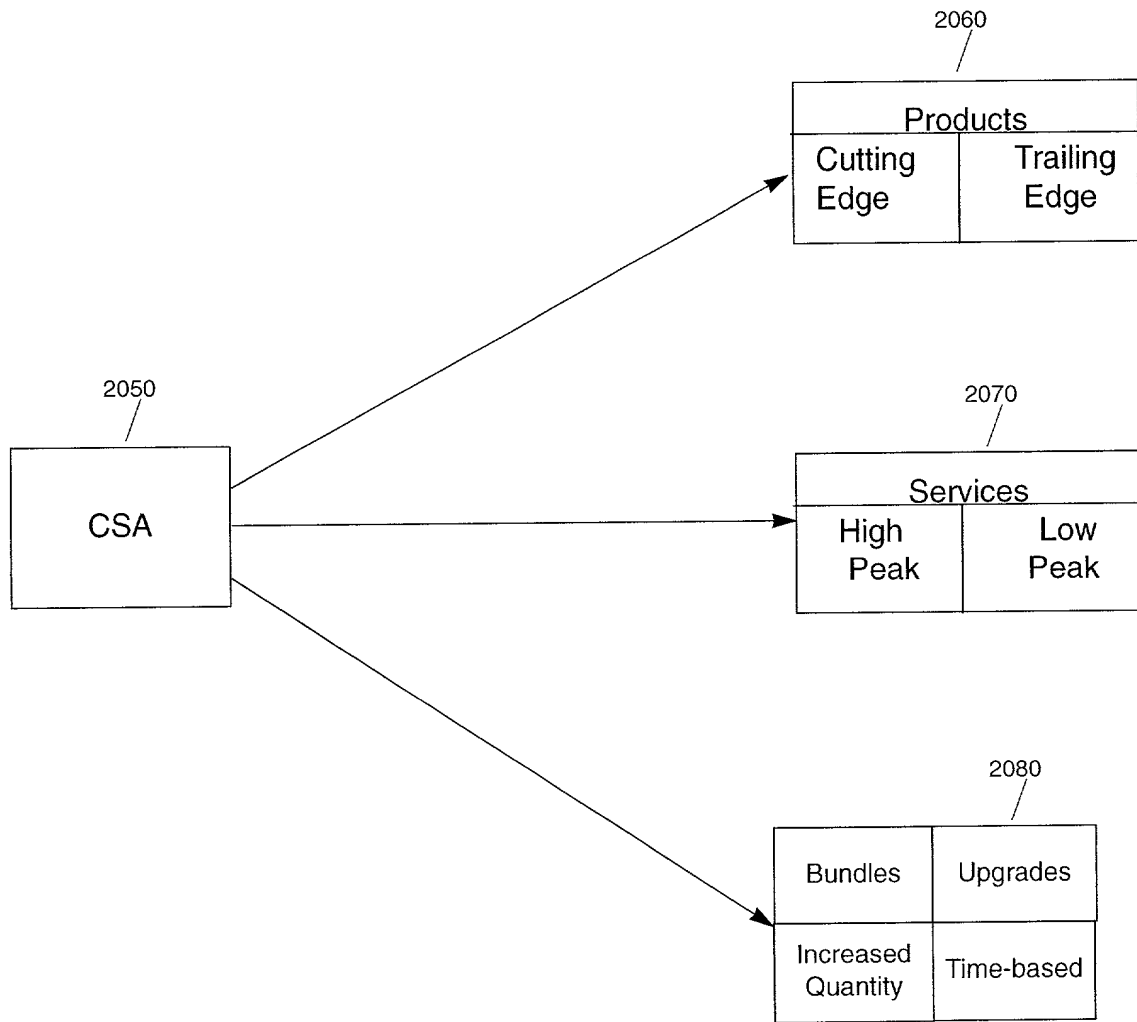


Fig. 18: Dynamic Pricing Model

Conditions:

- Product cycle rate
- Market/Economy
- Competition

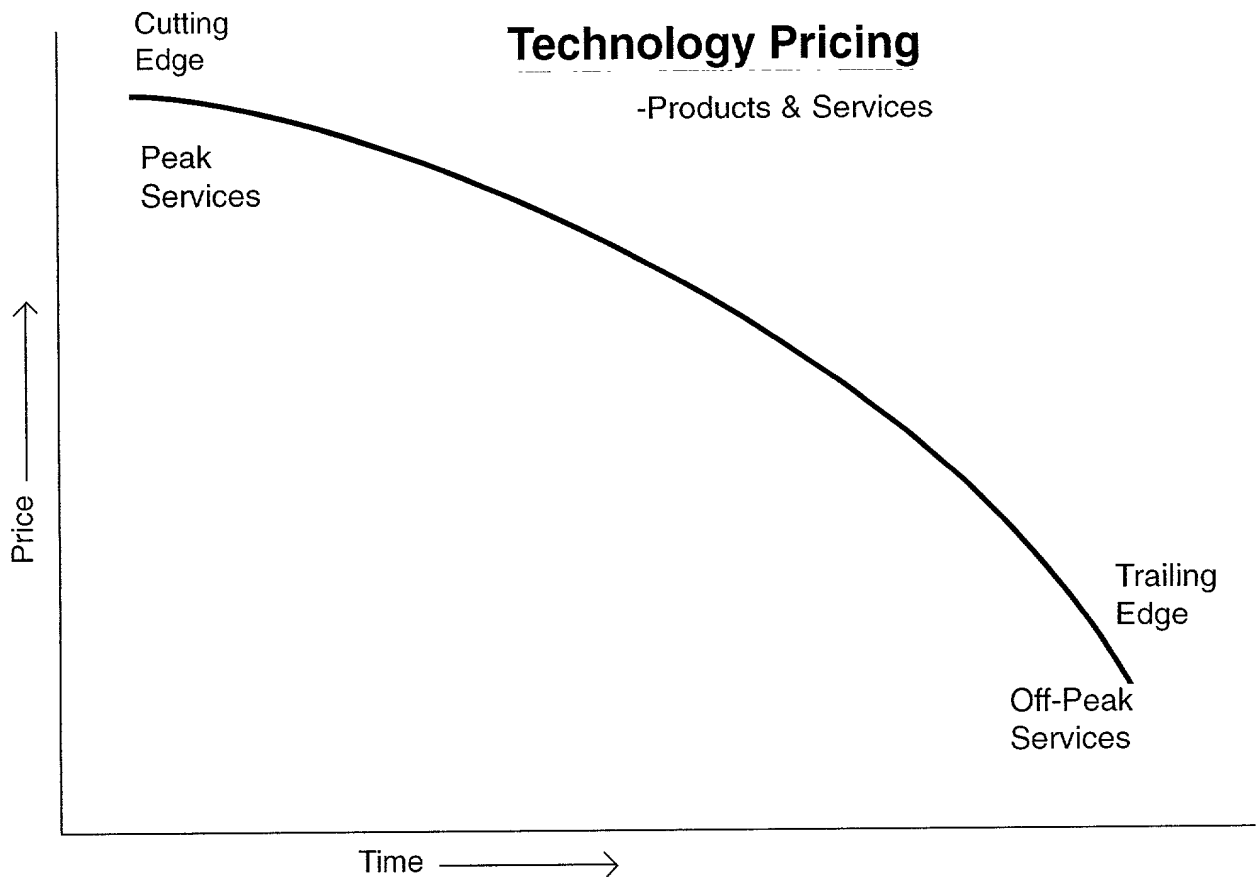


Fig. 19: Pricing Discount Promotions

Dropping Prices Tendency

1. Trailing edge technology
2. Off-peak service
3. Bundled packages (aggregation-discounts)
4. Surplus items
5. Decreasing quality
6. Quantity discount (multiple identical items)
8. Un-time-sensitive
9. Decreased features
10. Exploding (Time-sensitive) offers

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Fig. 20: Promotions Integrated with CSA & Showcase

Transaction based vs. Relationship based

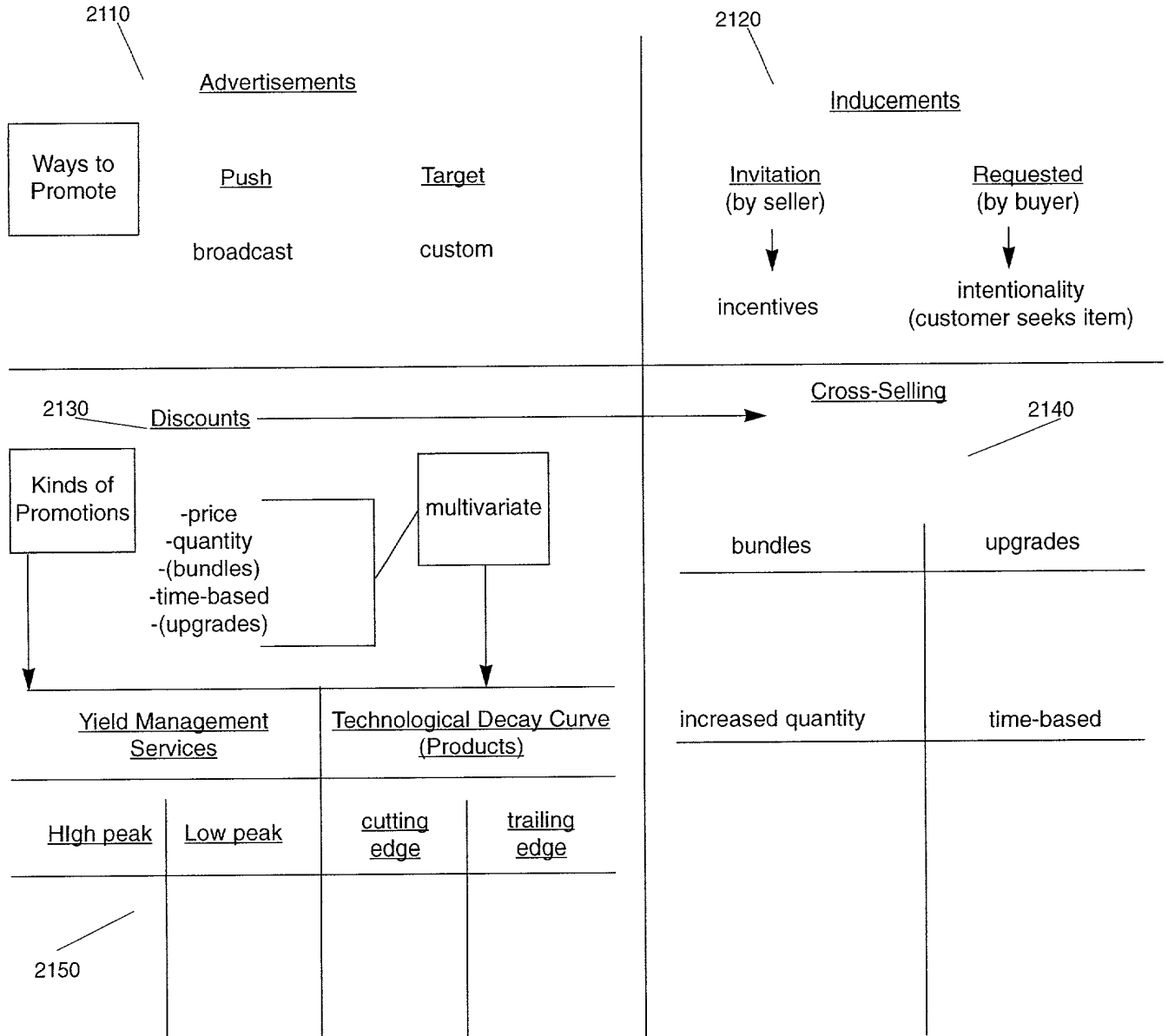
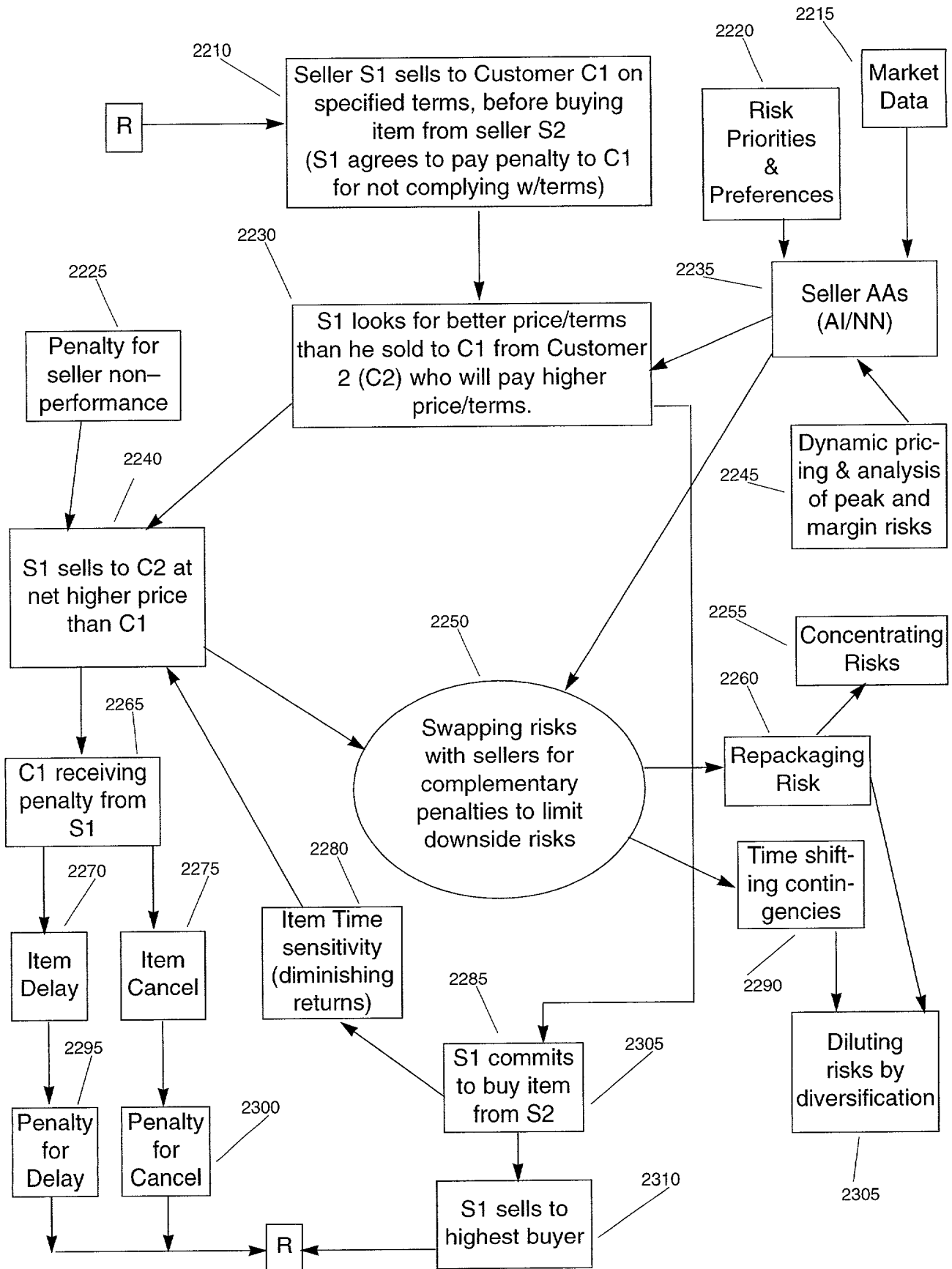


Fig. 21: RMO Contract Processes in Distributed System



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Fig. 22: Transaction Contingencies

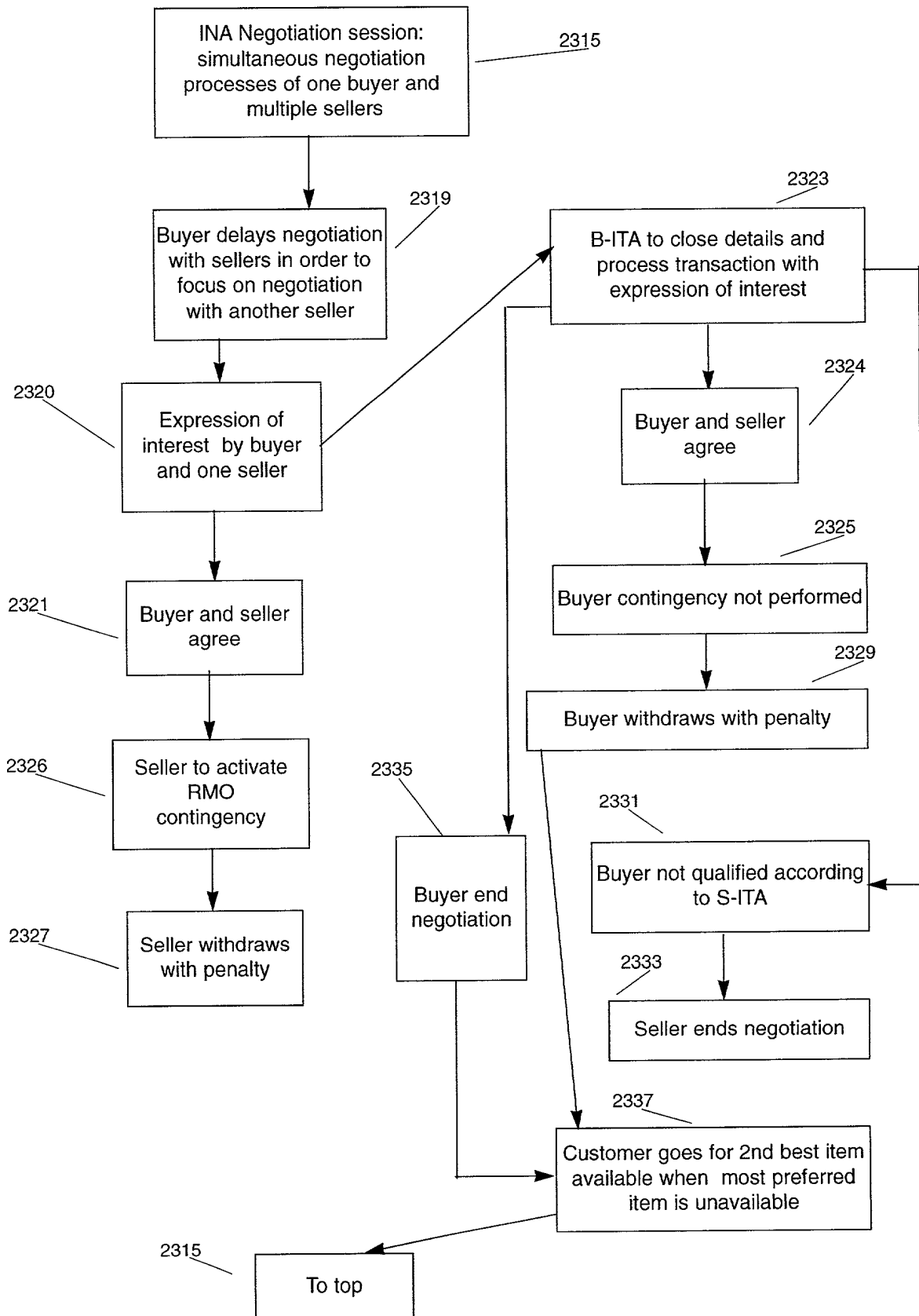
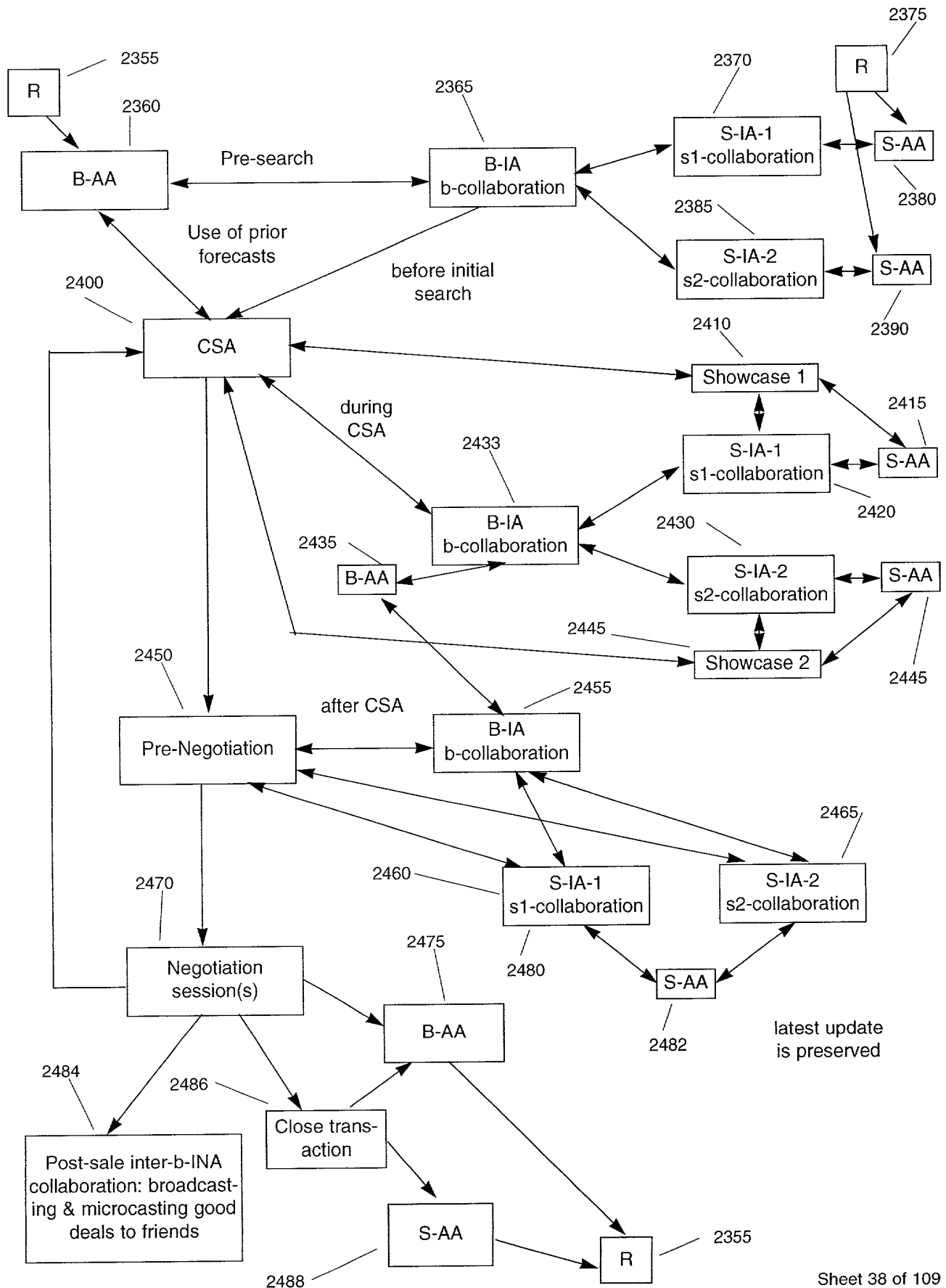


Fig. 23: Information Collaboration for MTO



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Fig. 24: Collaboration Process For MTO Customization

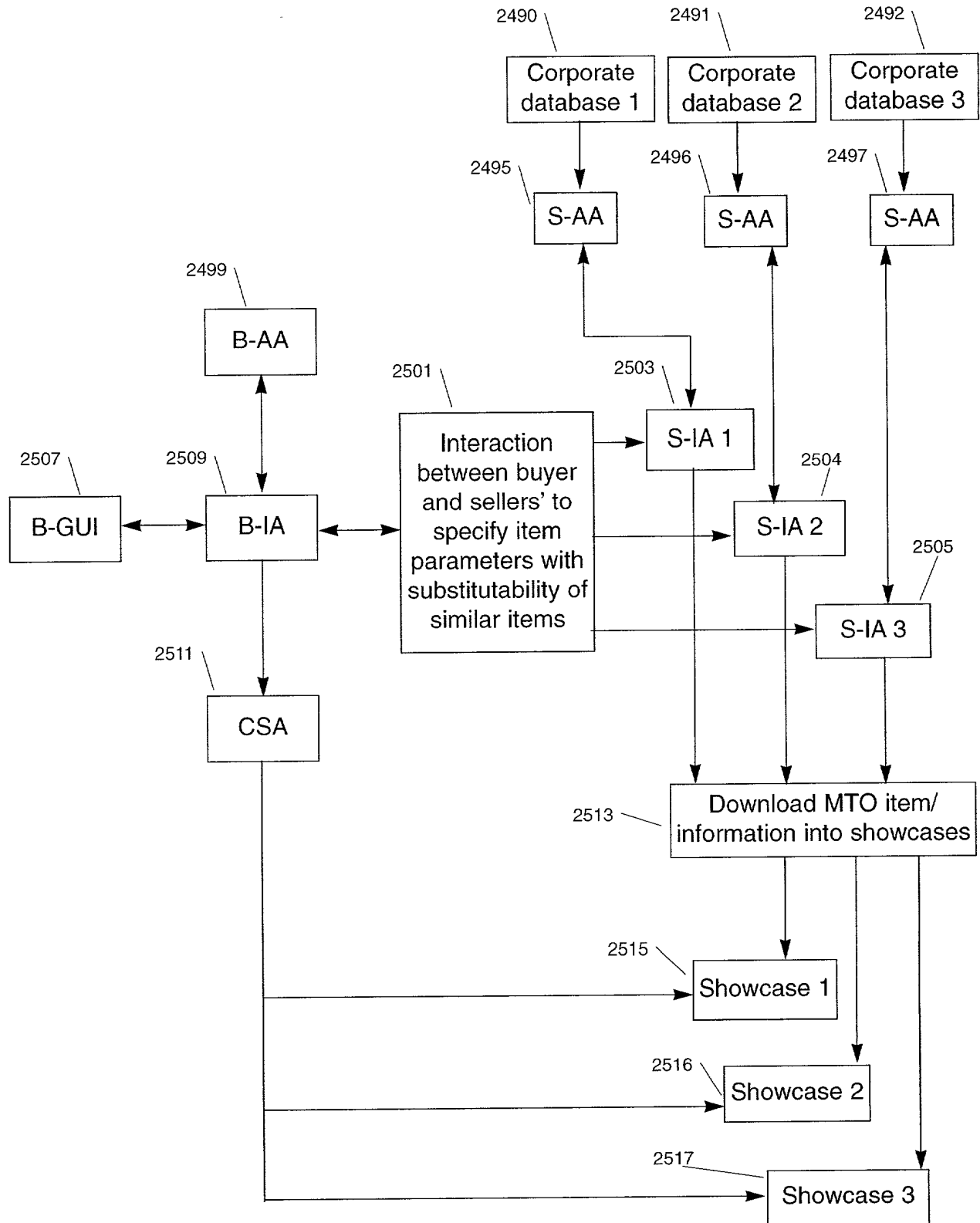


Fig. 27: Pre-Negotiation

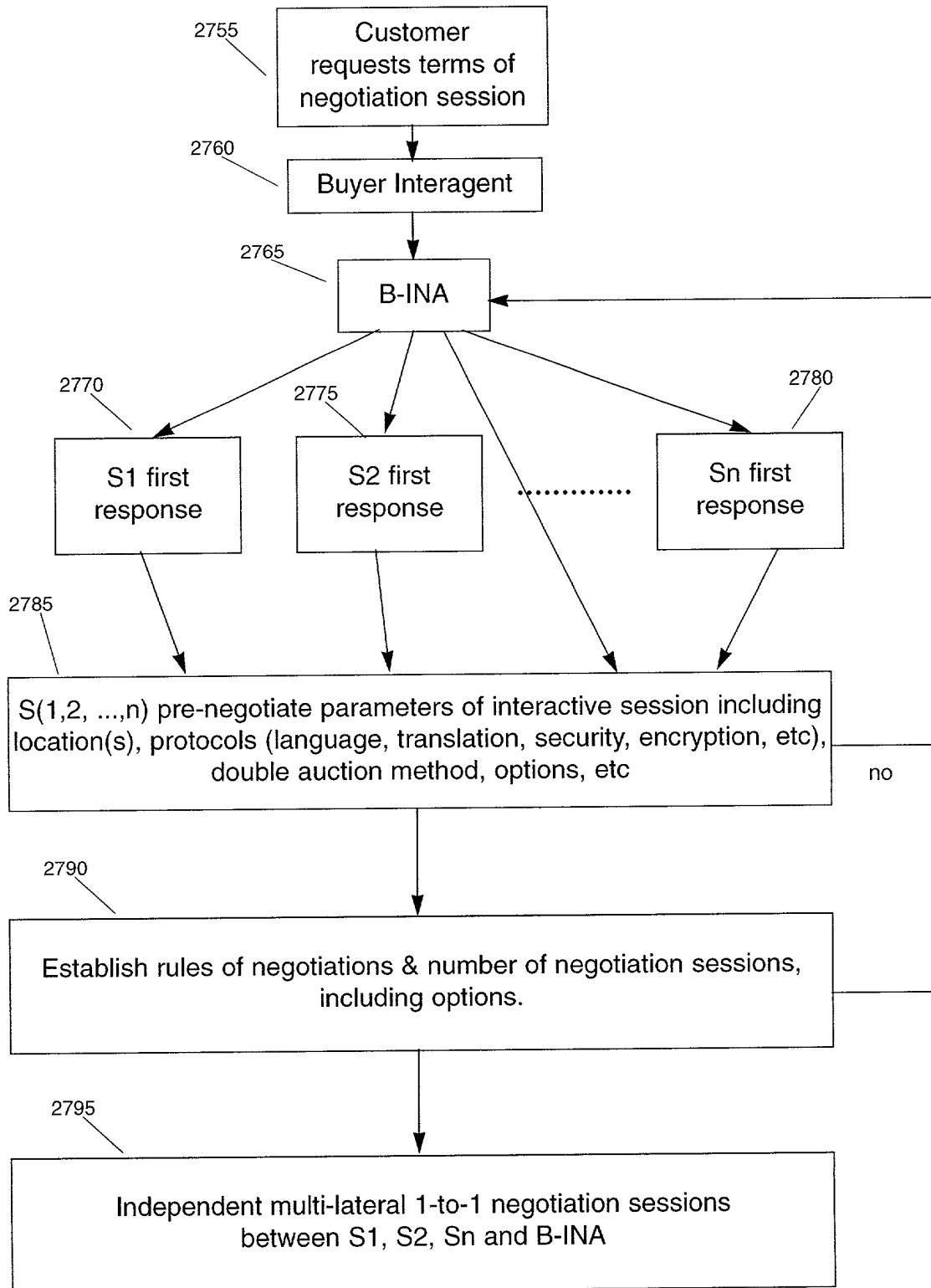


Fig. 28: Time-Based Negotiation Strategy Concealment

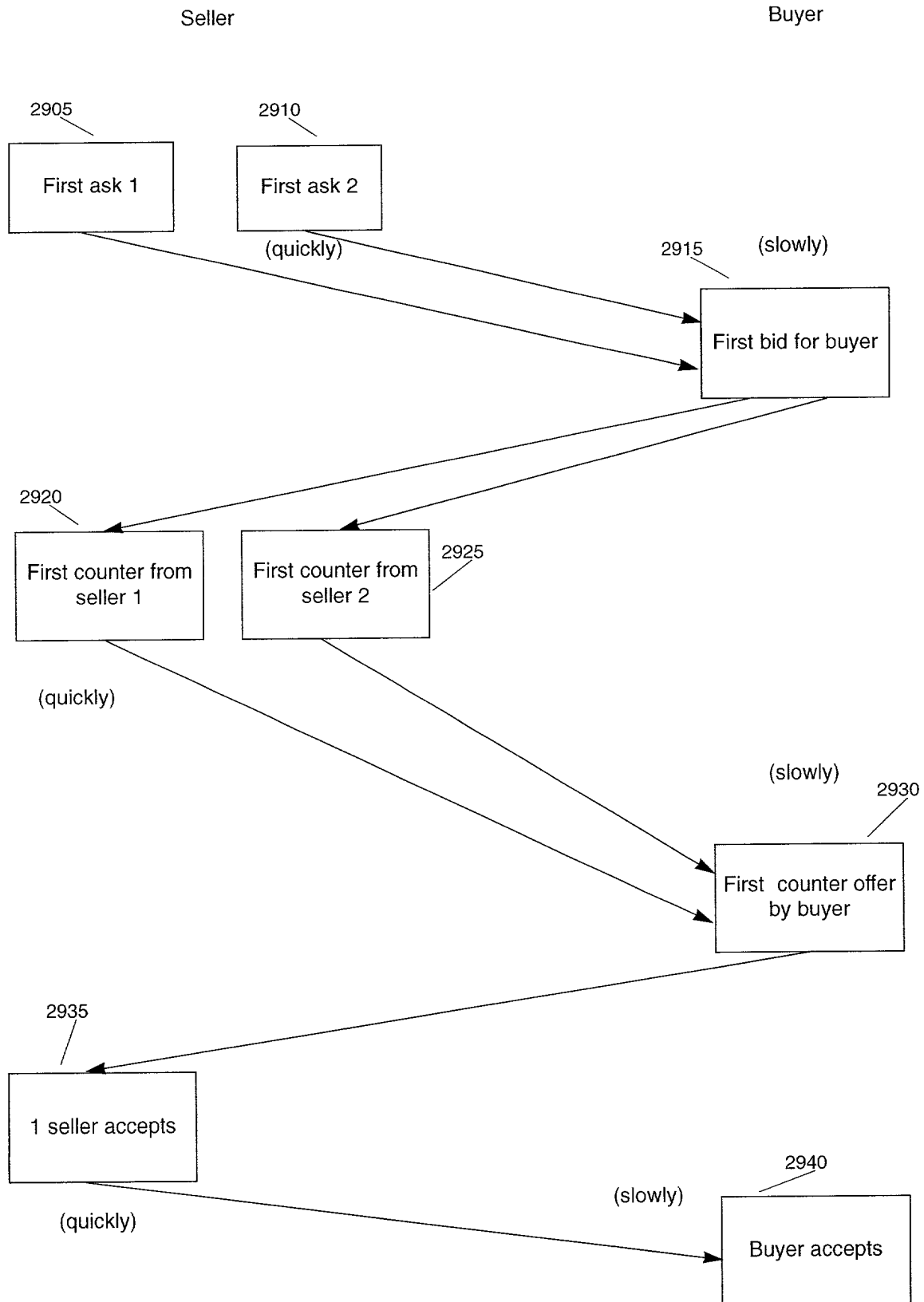


Fig. 29: INA Logistics

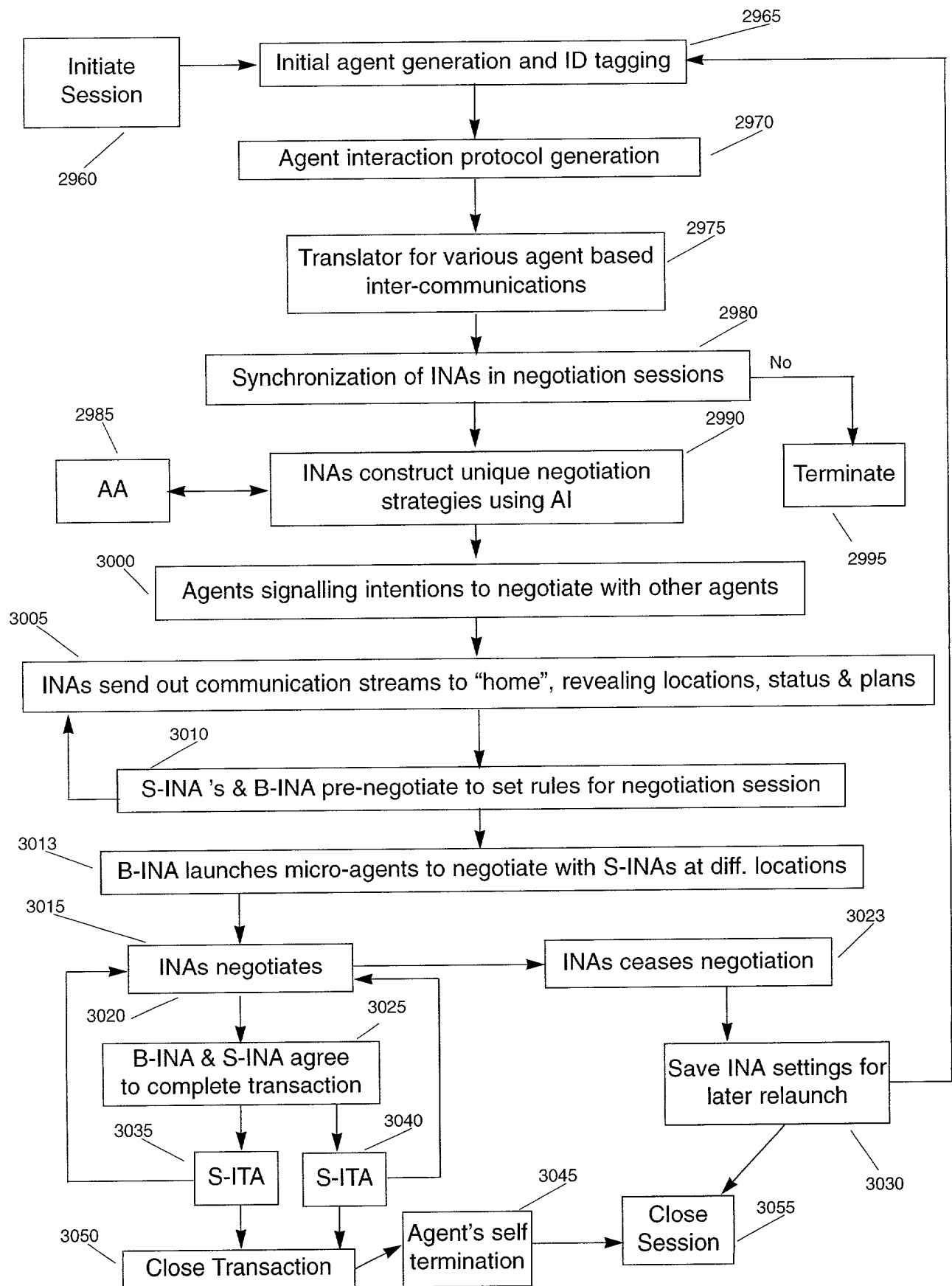
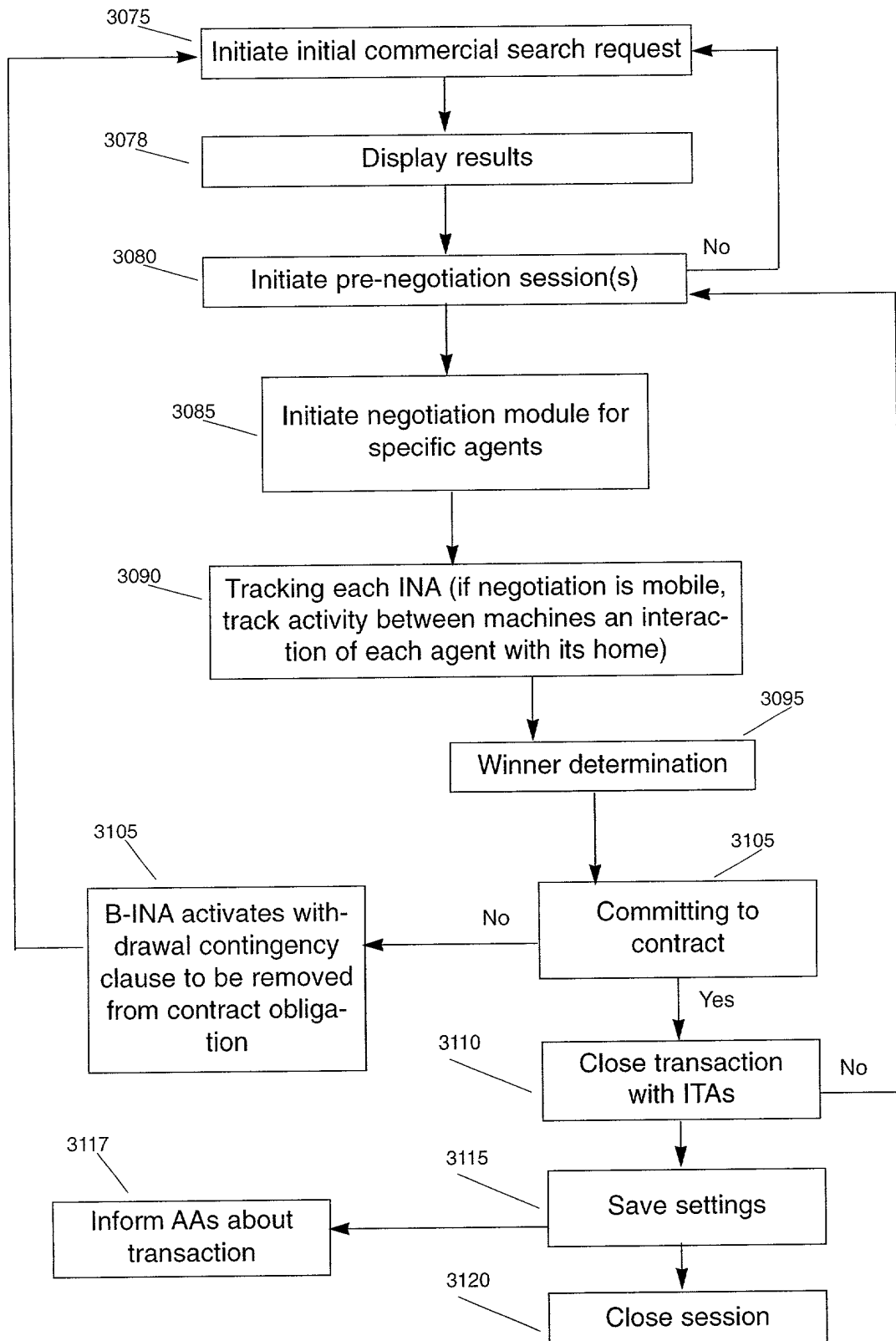


Fig. 30: INA Interaction Sequence #1



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Fig. 31: INA Interaction Sequence #2

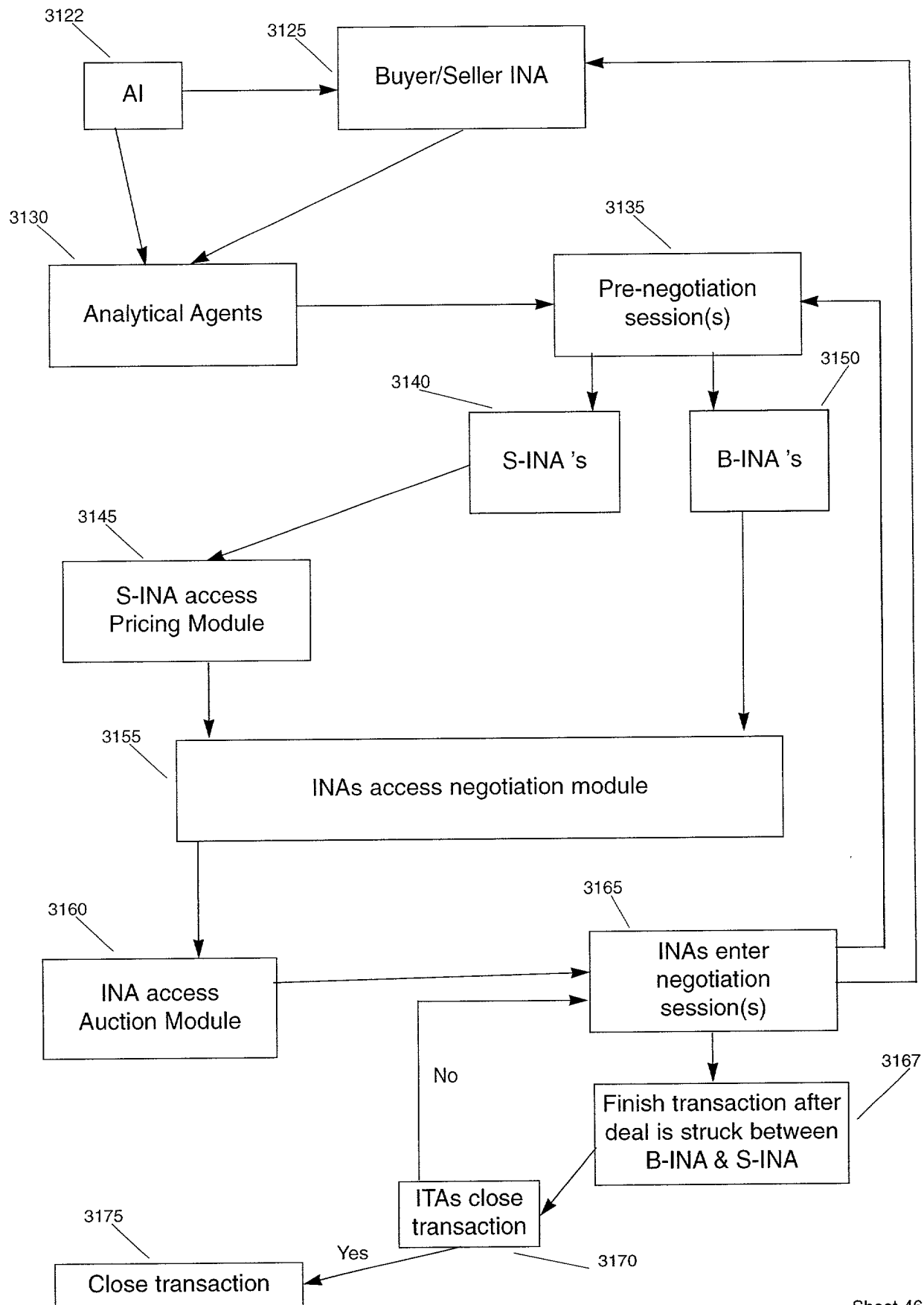


Fig. 32: INA Architecture 1 (First part interactions)

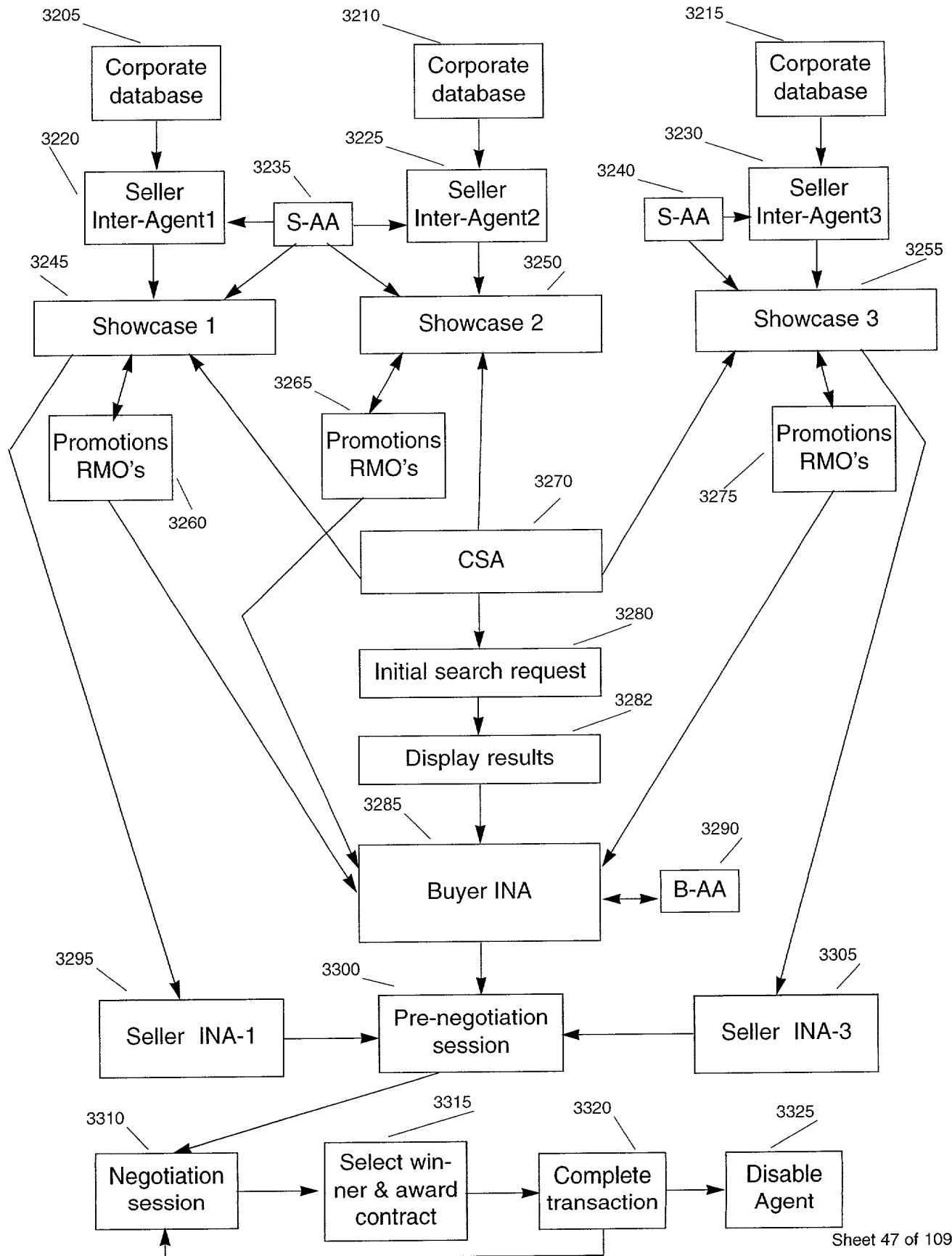


Fig. 33: INA Architecture 2 (Negotiation interactions)

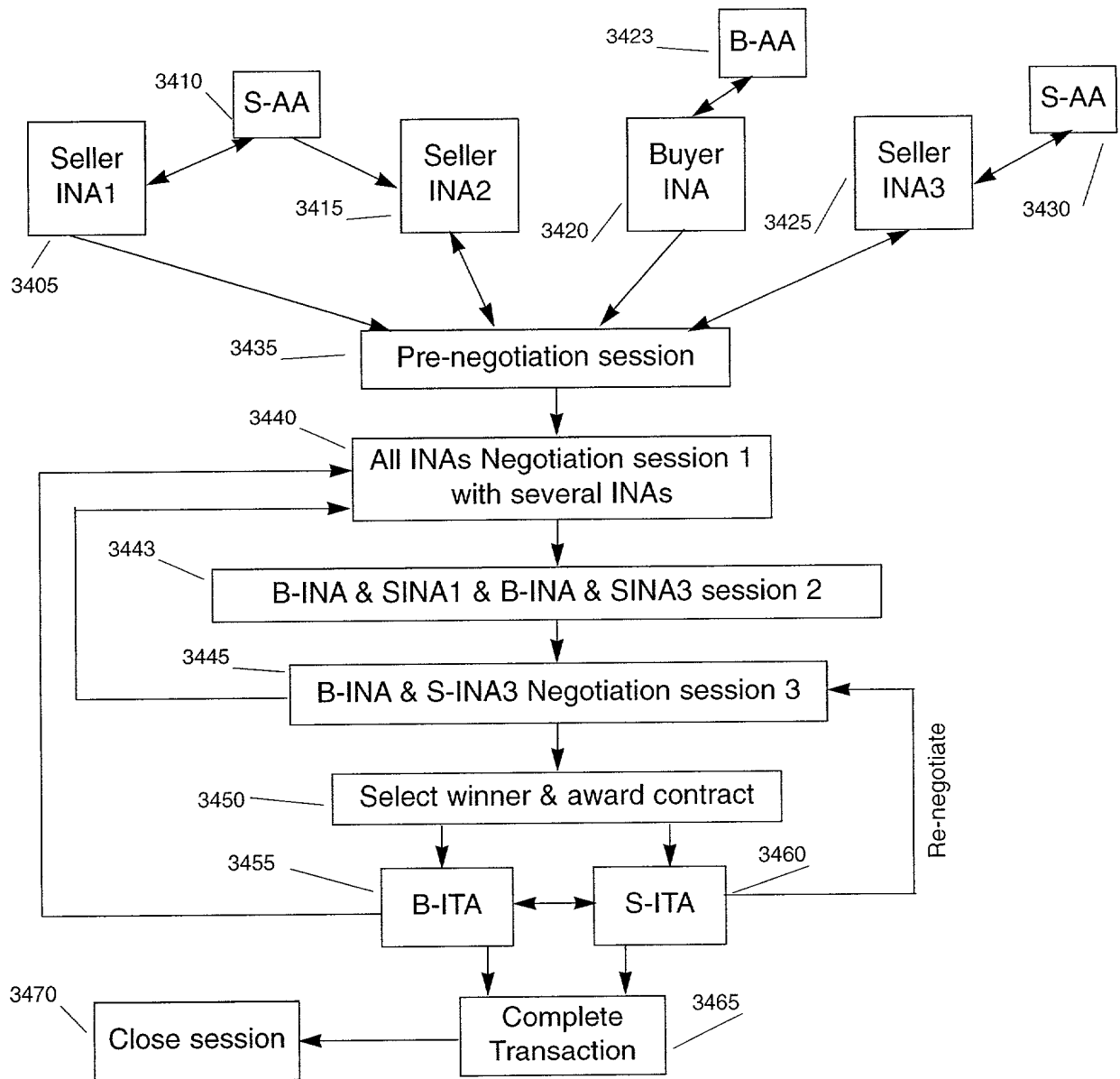
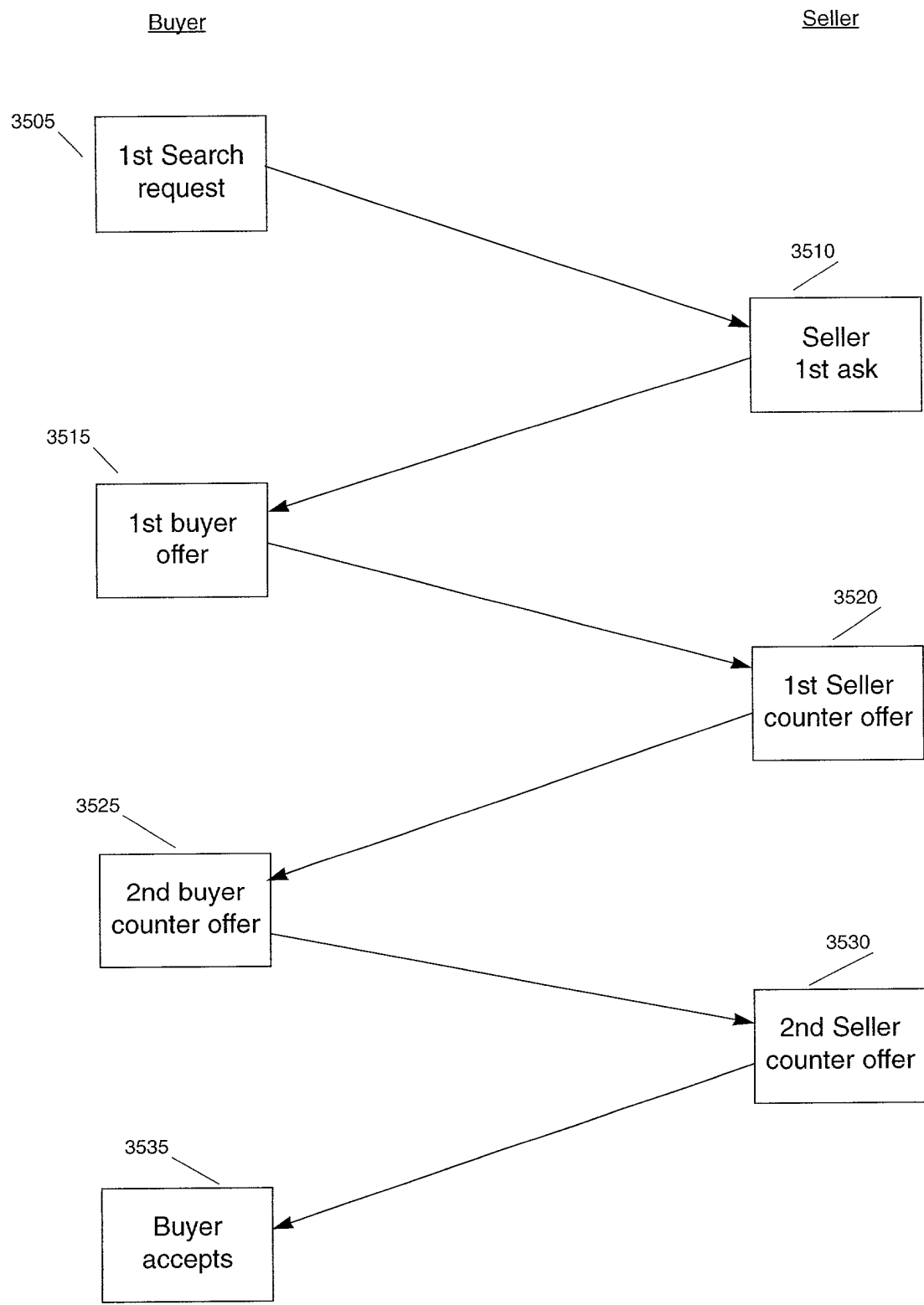


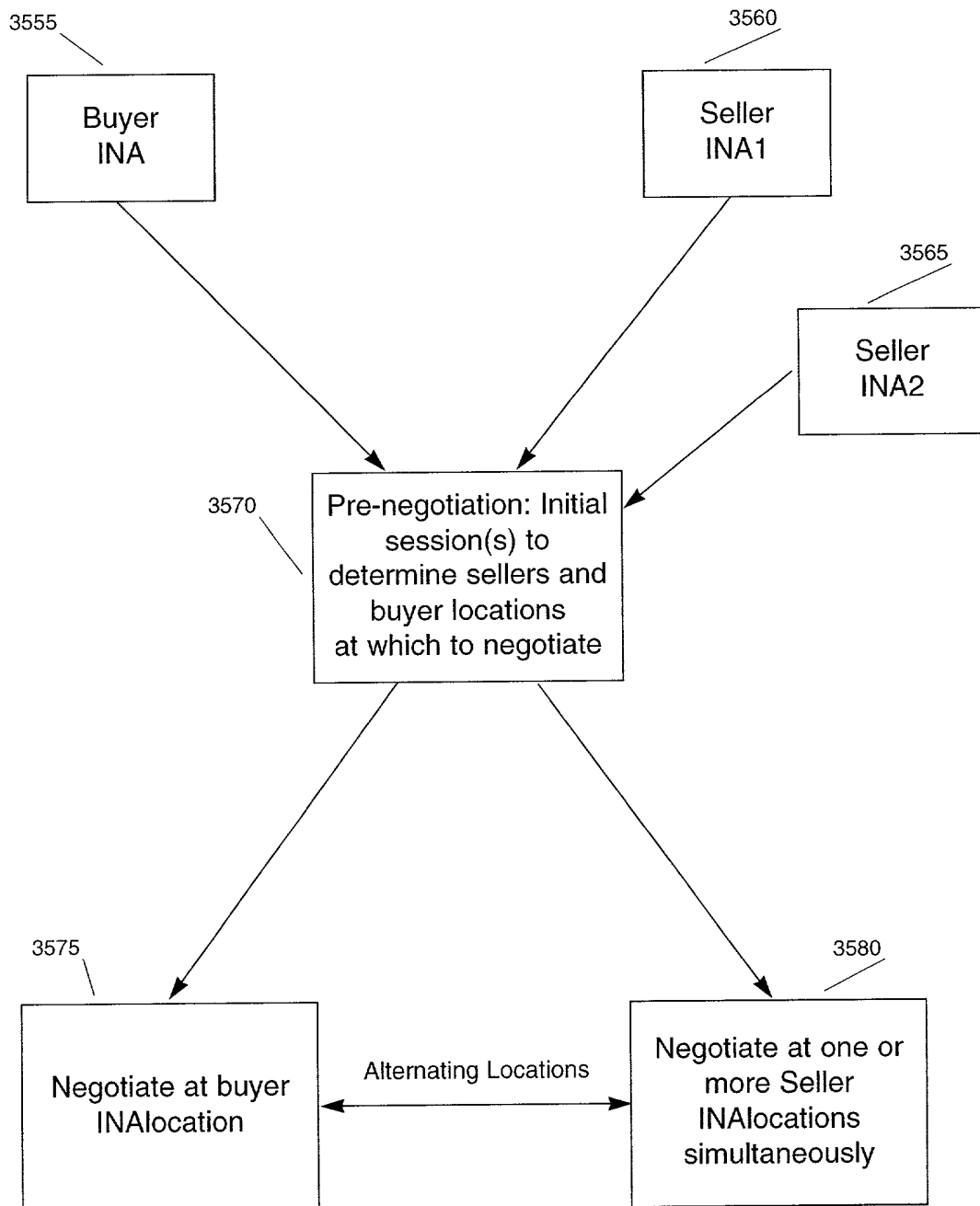
FIG. 33: INA Architecture 2

Fig. 34: INANegotiation Time Based Sequences



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Fig. 35: Initial INA Mobile Location Protocol Settlement



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**Fig. 36: Tournament Configuration of
INA Winner Determination**

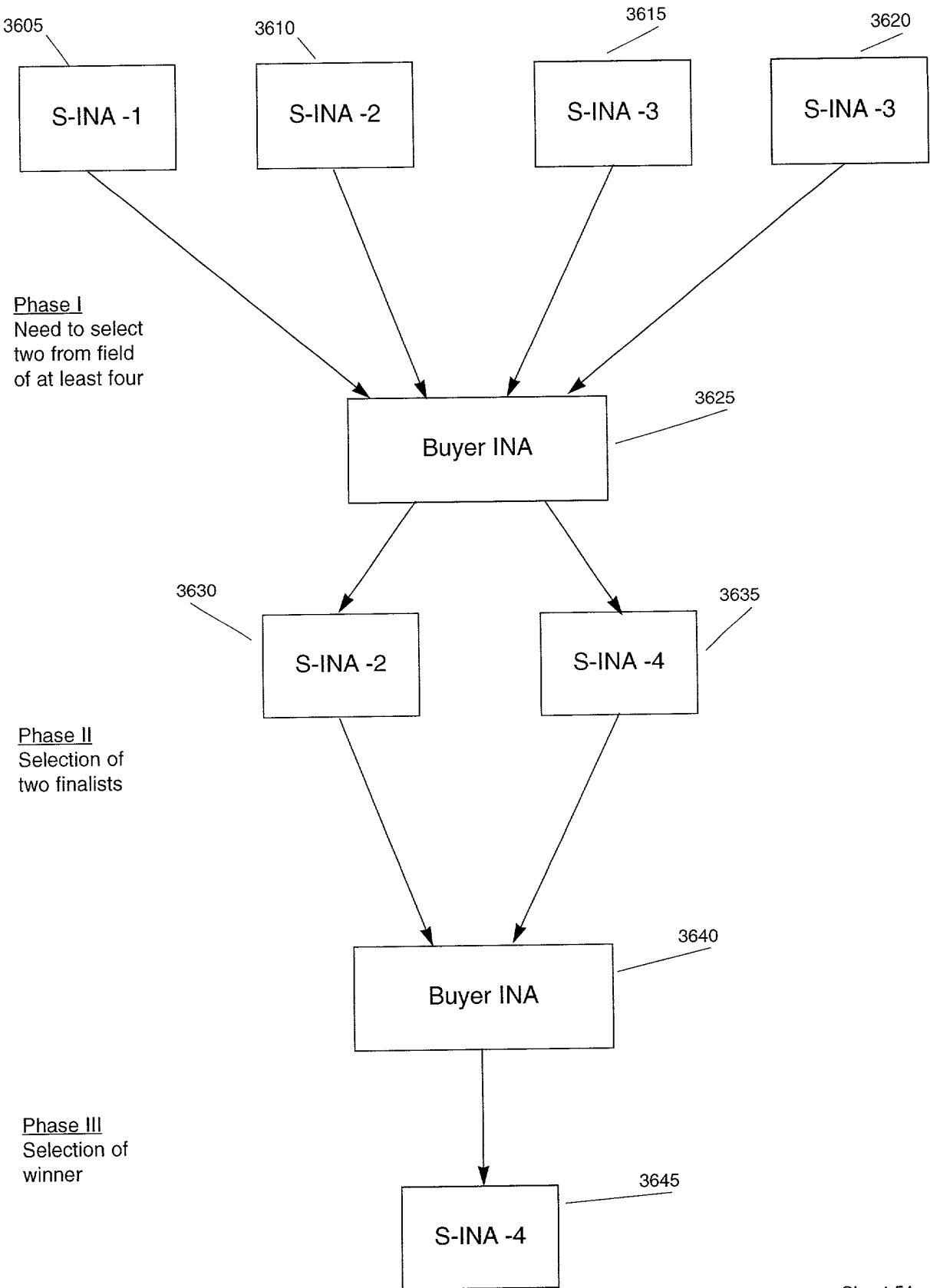


Fig. 37: Multivariate Negotiation

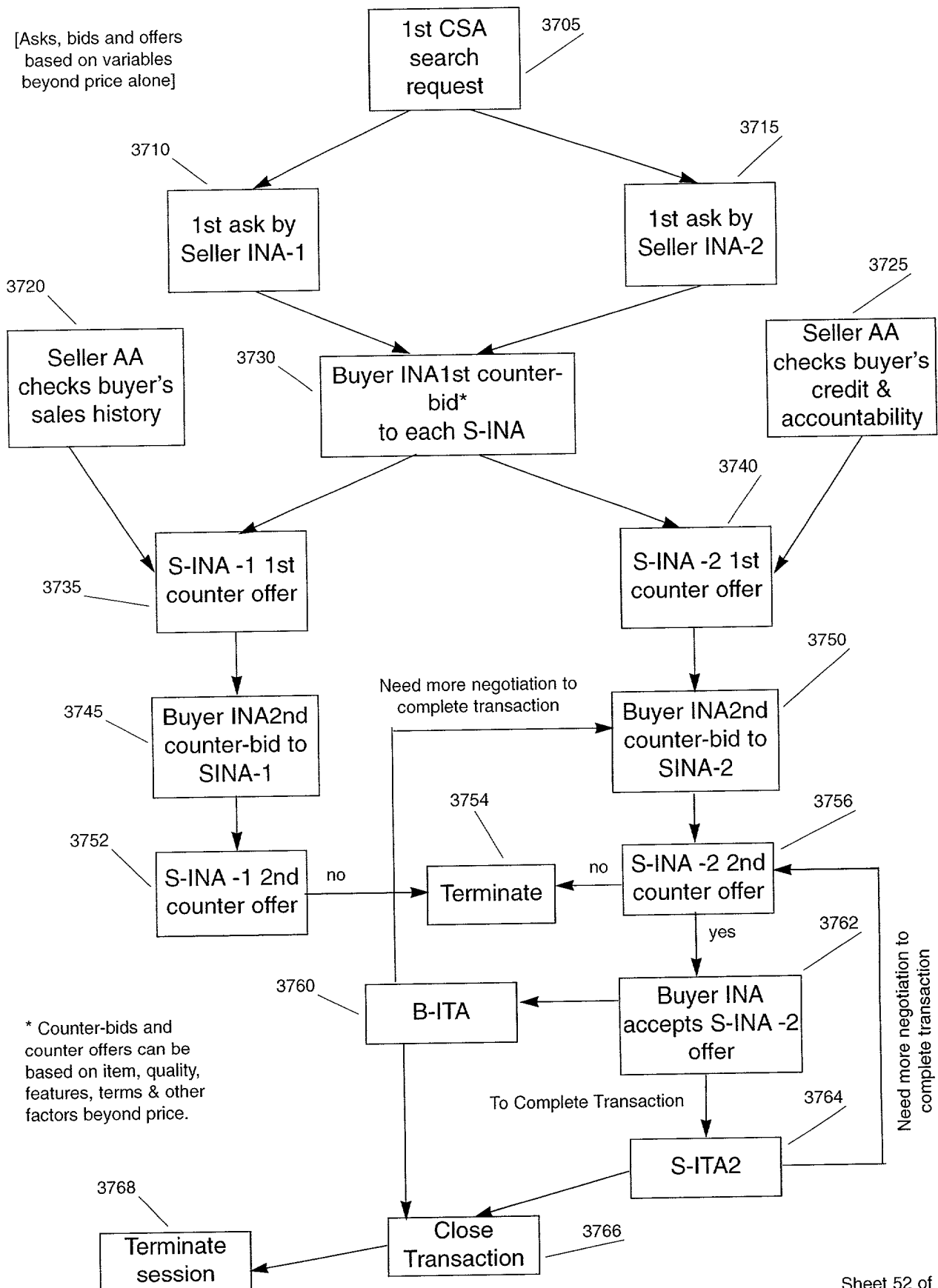


Fig. 38: Demand-Initiated Automated Negotiation Sequence Compromise Process Within Pre-established Parameters between One Buyer & One Seller

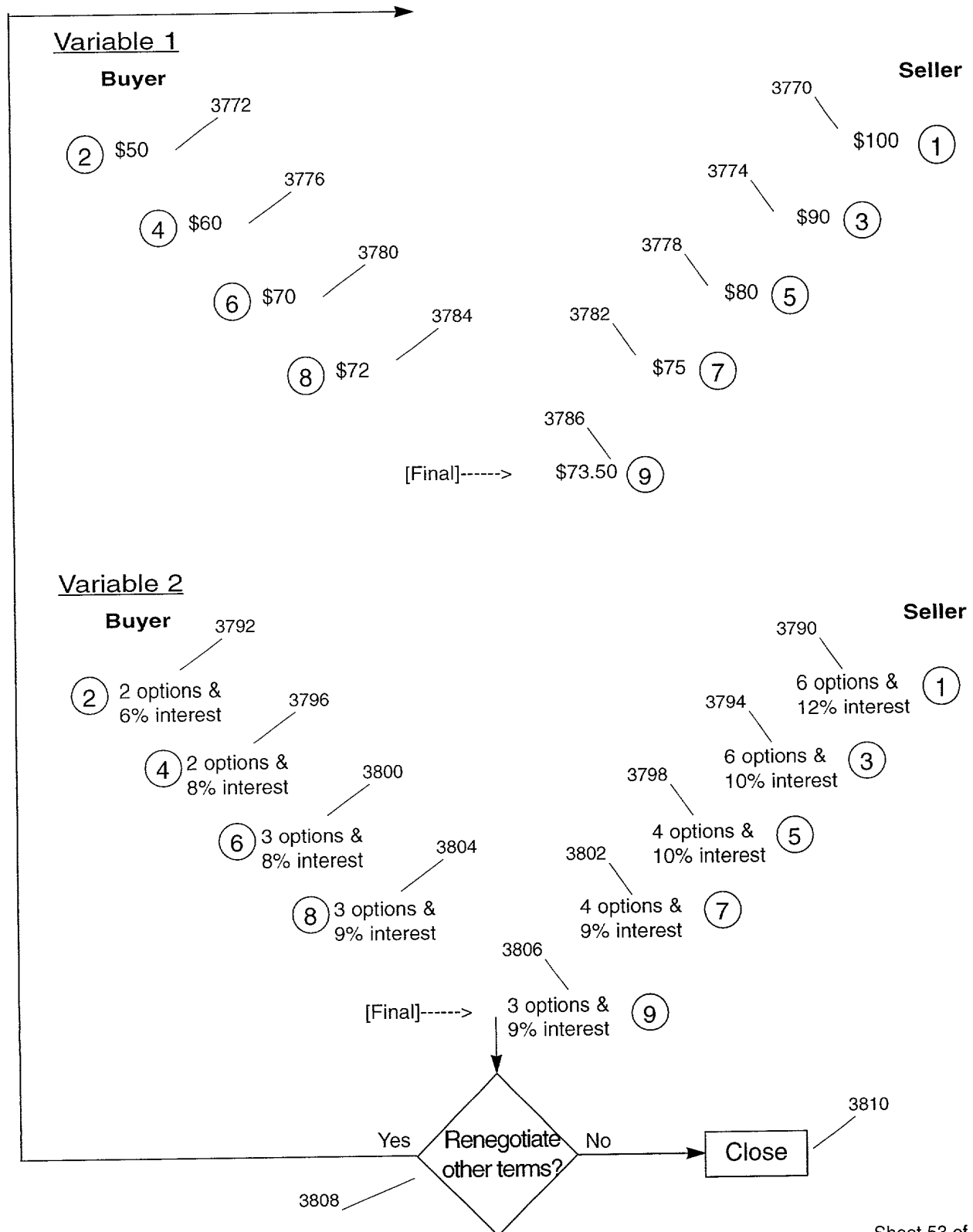
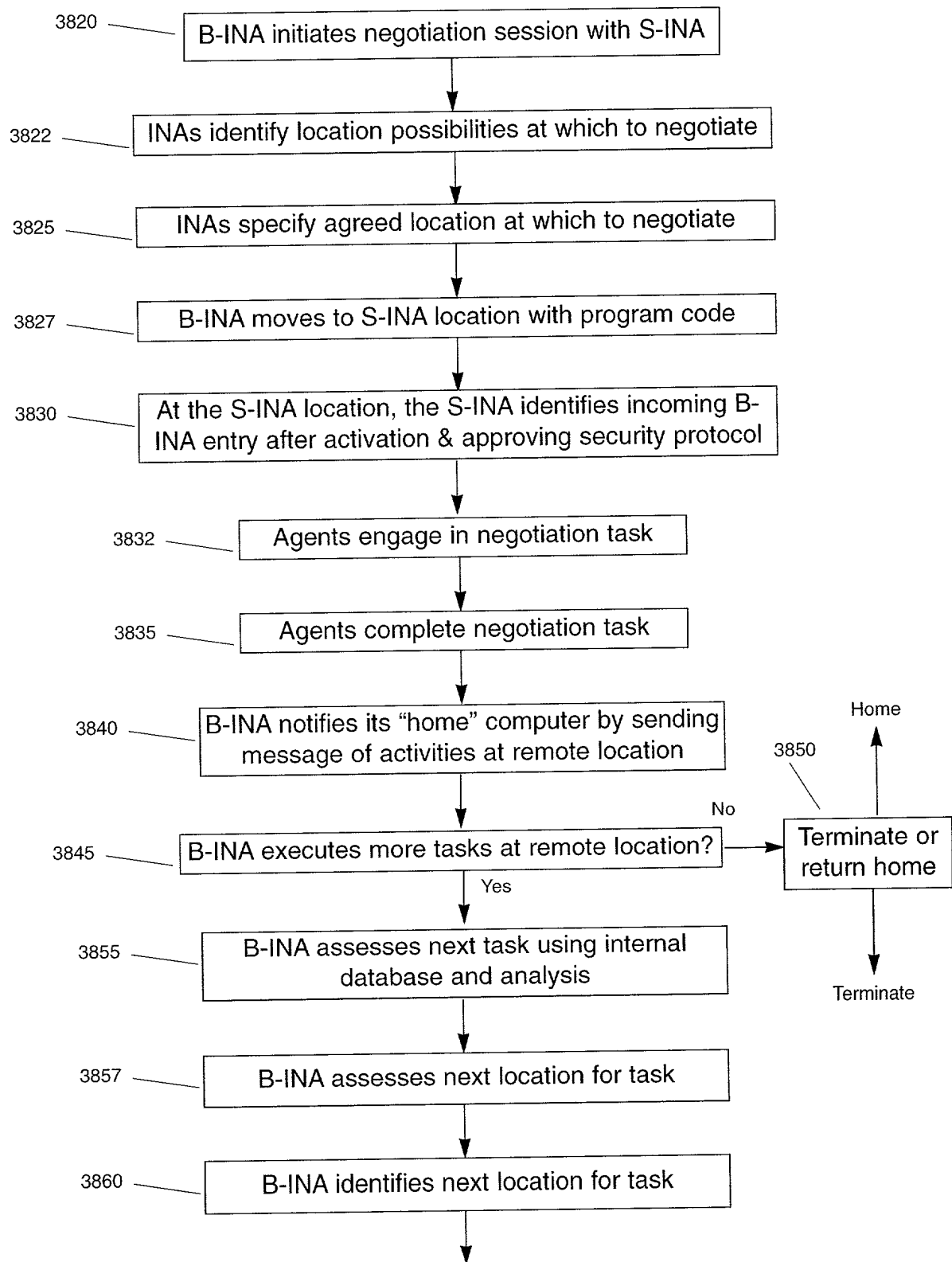
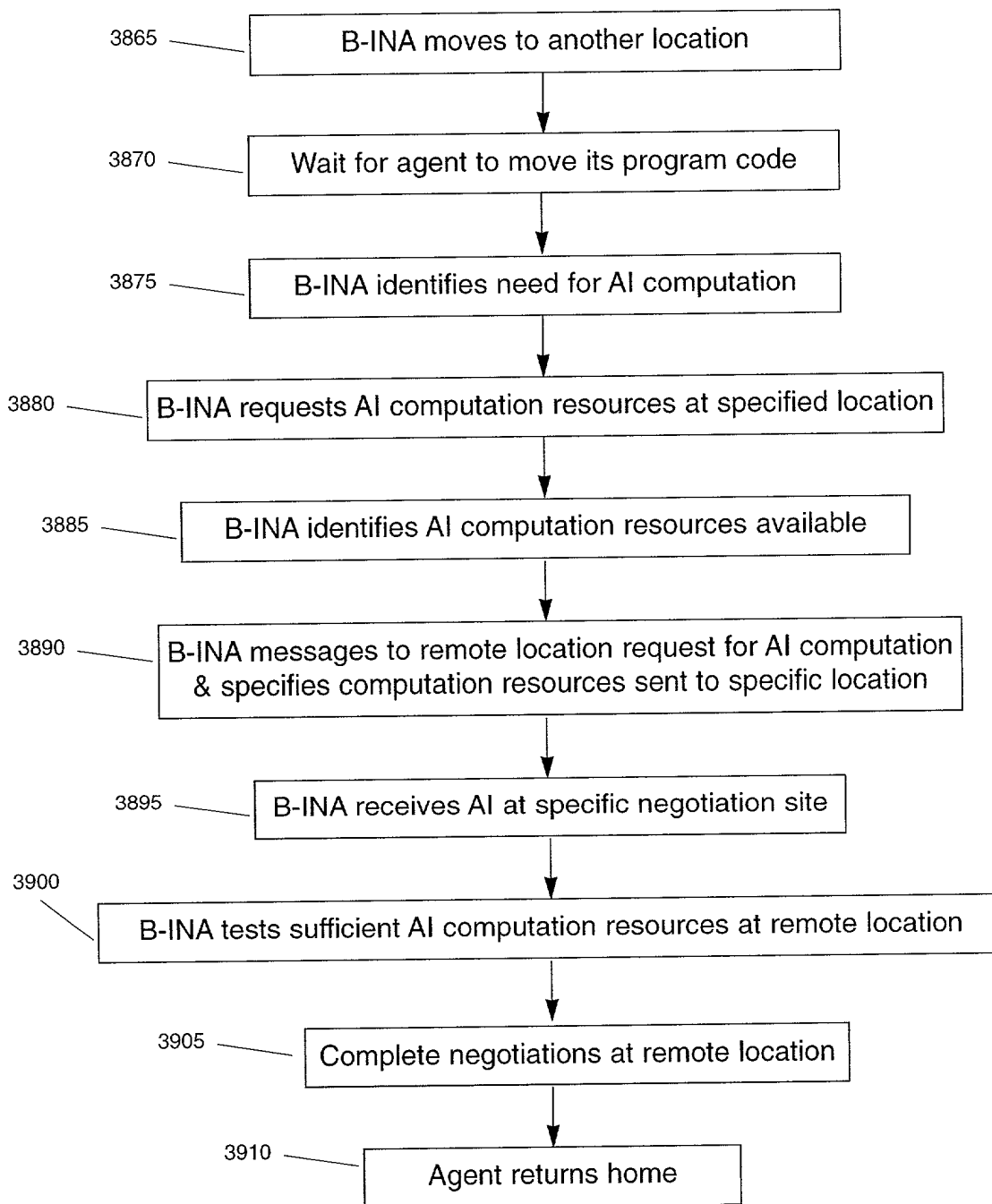


Fig. 39A: Negotiation in a Distributed System with Mobility



**Fig. 39B: Negotiation in a Distributed System with Mobility
(Continued)**



**Fig. 40: Multi-lateral Distributed Competition
(Competitive Double Shout Negotiation)**

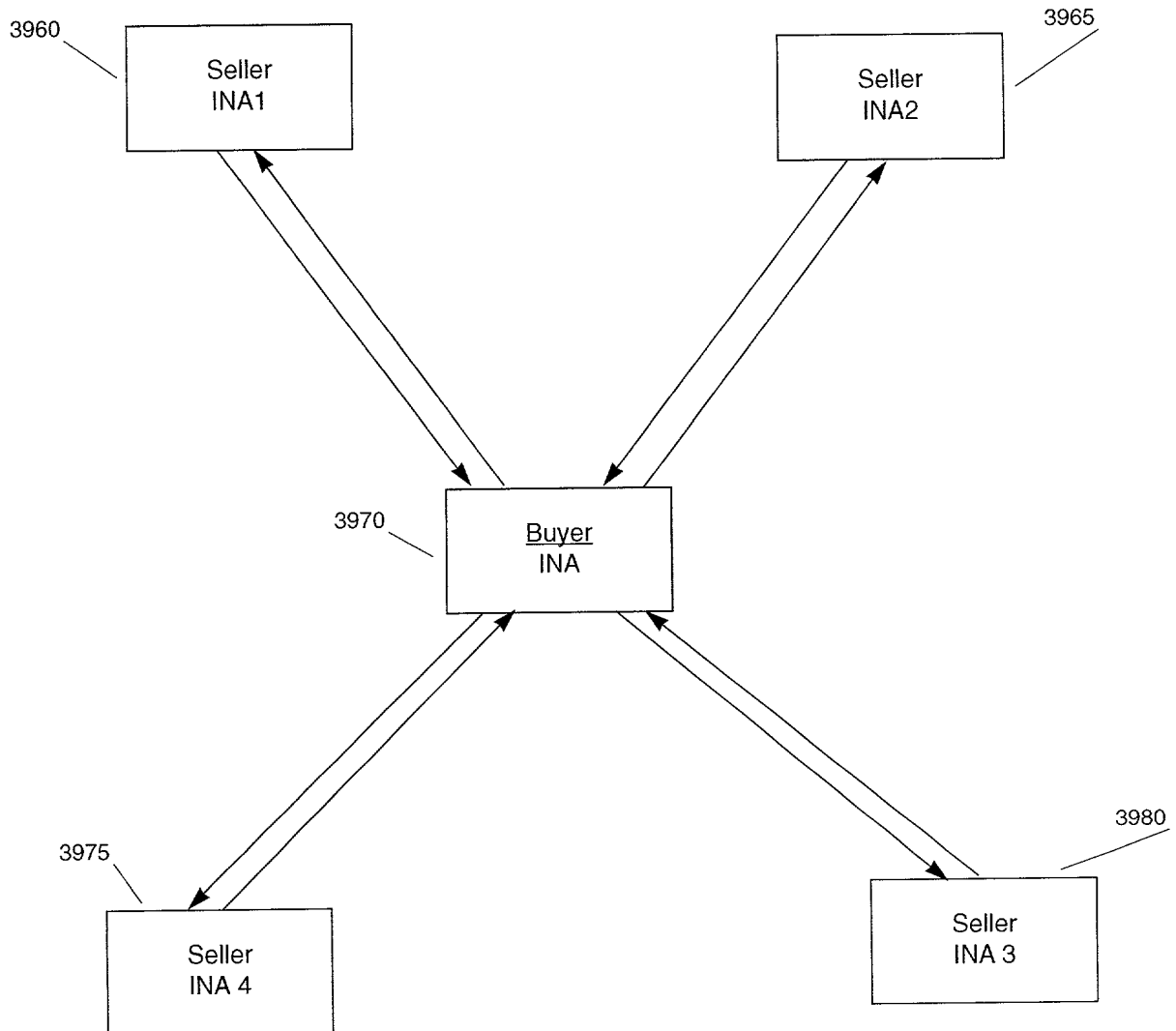


Fig. 41: Negotiation Module: Negotiation Method Schema

1 to 1 Interactive Negotiations

| <u>Kinds Of Goals</u> | <u>Cooperative Goals</u> (Zero-Sum Game) | <u>Competitive Goals</u> (Zero-Sum Game) |
|---|--|---|
| Short Term goal (price - maximization) | 1) Exchange-based approach: Trade-off of terms/variables between parties | 1) dialectical approach: give & take of opponents until resolution |
| -vs- | a) matching of interests: ascertain mutual interest with overlapping sets... b) prioritizations of preferences: hierarchy of similar priorities | a) [position description & justification] explanation based: each position advances and develops b) [Interrogation] argumentation: critique of opponent's position* c) [Ascertain mutual self-interest] Assessing overlapping interests d) Selecting common sets |
| Long-term goal (relationship management) | 2) Problem-solving approach: parties seek a common solution a) assessing common interests among different positions b) compromise of positions to a common set shared by parties | *Anticipate opponent's strategy |
| <u>Constraining Factors</u> | <u>Buyer-Initiated</u> | <u>Non-Zero-Sum Game</u> |
| 1) Time constrained: multi-sessions as instrumental changes | [Negotiation as adjustment of seller parameters] a) buyer query as initiation b) priority of best and then second best, and then third best, etc... | 1) deterrence approach: behaving so that competitors do not get without higher cost a) bidding aggressively and/or deceptively and then withdrawing |
| 2) Information constrained: less than optimum information | | <u>Seller initiated</u> |
| 3) Choice Constrained: Limiting of options | | [Negotiation as disagreement with initial seller promotions] a) promotions or 1st seller bid (result of search query) as 1st point of departure |
| <u>Terms</u> | <u>Multiple Parallel Interactive Negotiations</u> | |
| 1) Item terms 2) Transaction terms | <u>One to several</u> | <u>Several to several</u> |
| | a) Stopping negotiation when one winner is selected | Single Item: Stopping negotiation when one buyer & 1 seller is selected Multiple items: a) Stopping negotiation when mutual agreement of multiple parties |

Fig. 42: INA Auction Module-Auction Types

| Auction Types | |
|----------------------------------|--|
| English (Increasing) | Dutch (Decreasing) |
| Vickrey (second highest bid) | “combinatorial” multiple-item auctions (package deals) |
| Combinations of auction types | Double-shout |

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Fig. 43: Negotiation, Pricing & Auction Module Interactions

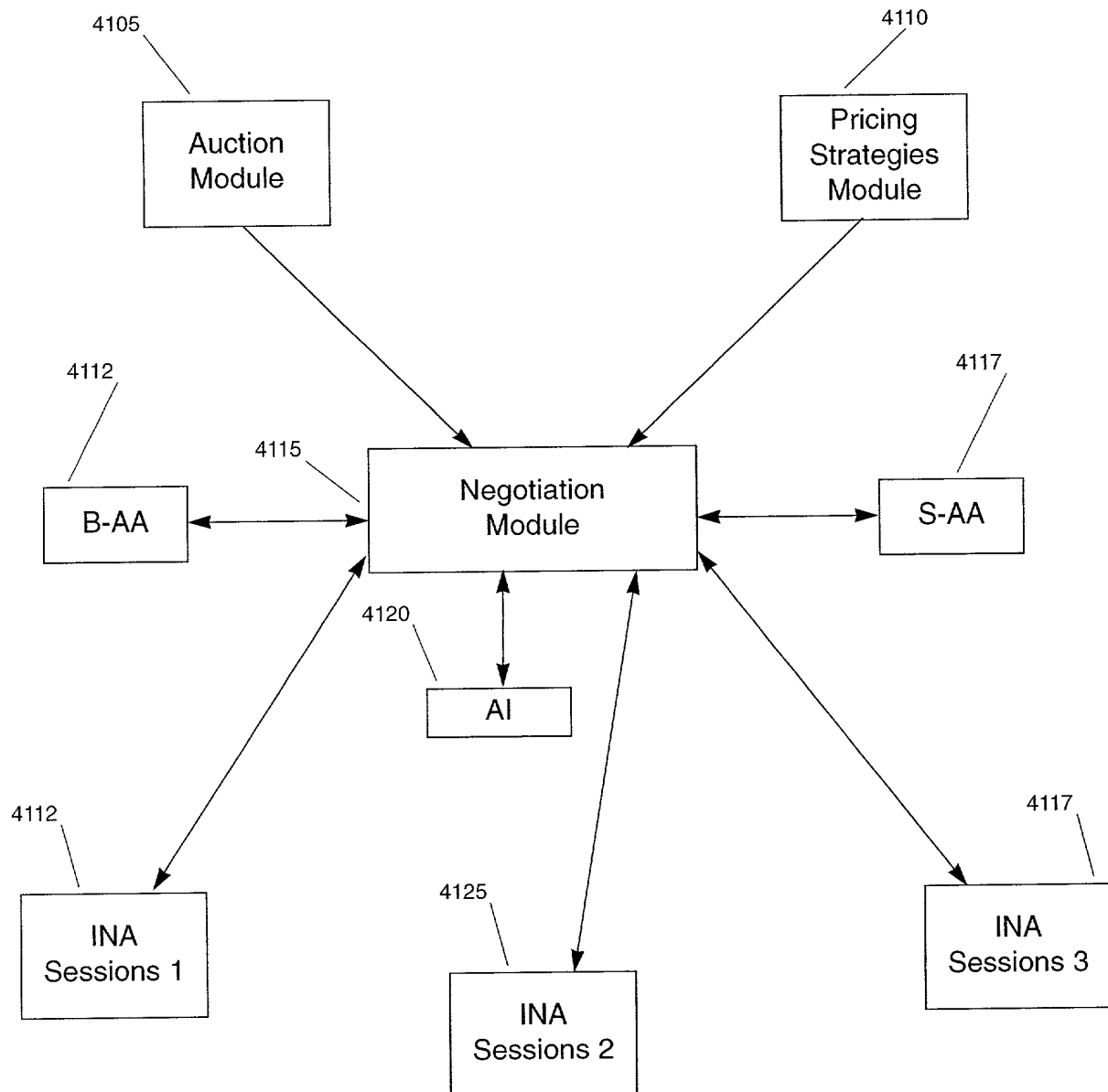
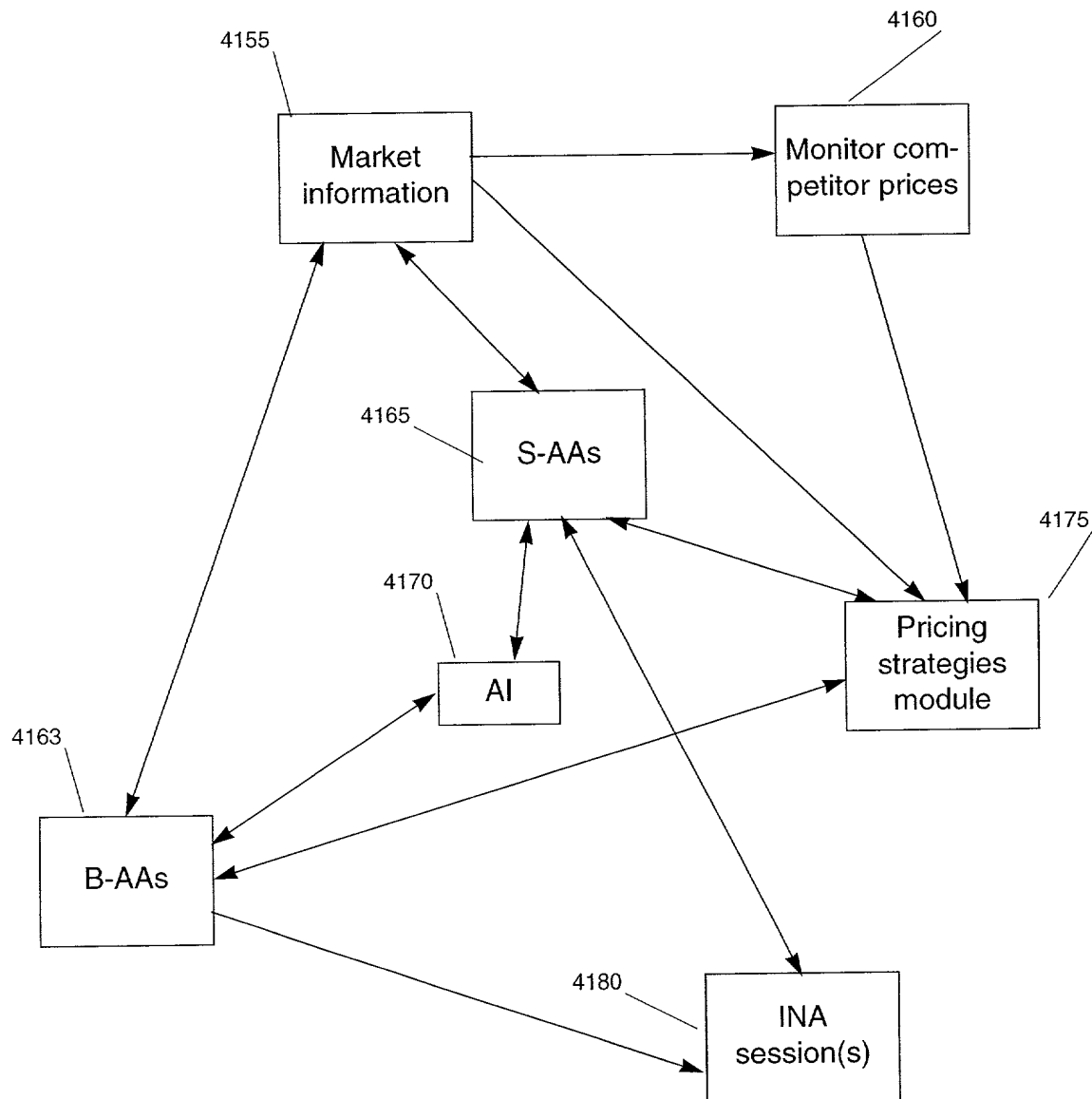


FIG. 43: Negotiation, Pricing & Auction Module Interactions

Fig. 44: Pricing Strategies Module and AA Interactions



**Fig. 46: Neutral Broker Agency
C-INA Intermediation & Aggregation Applications**

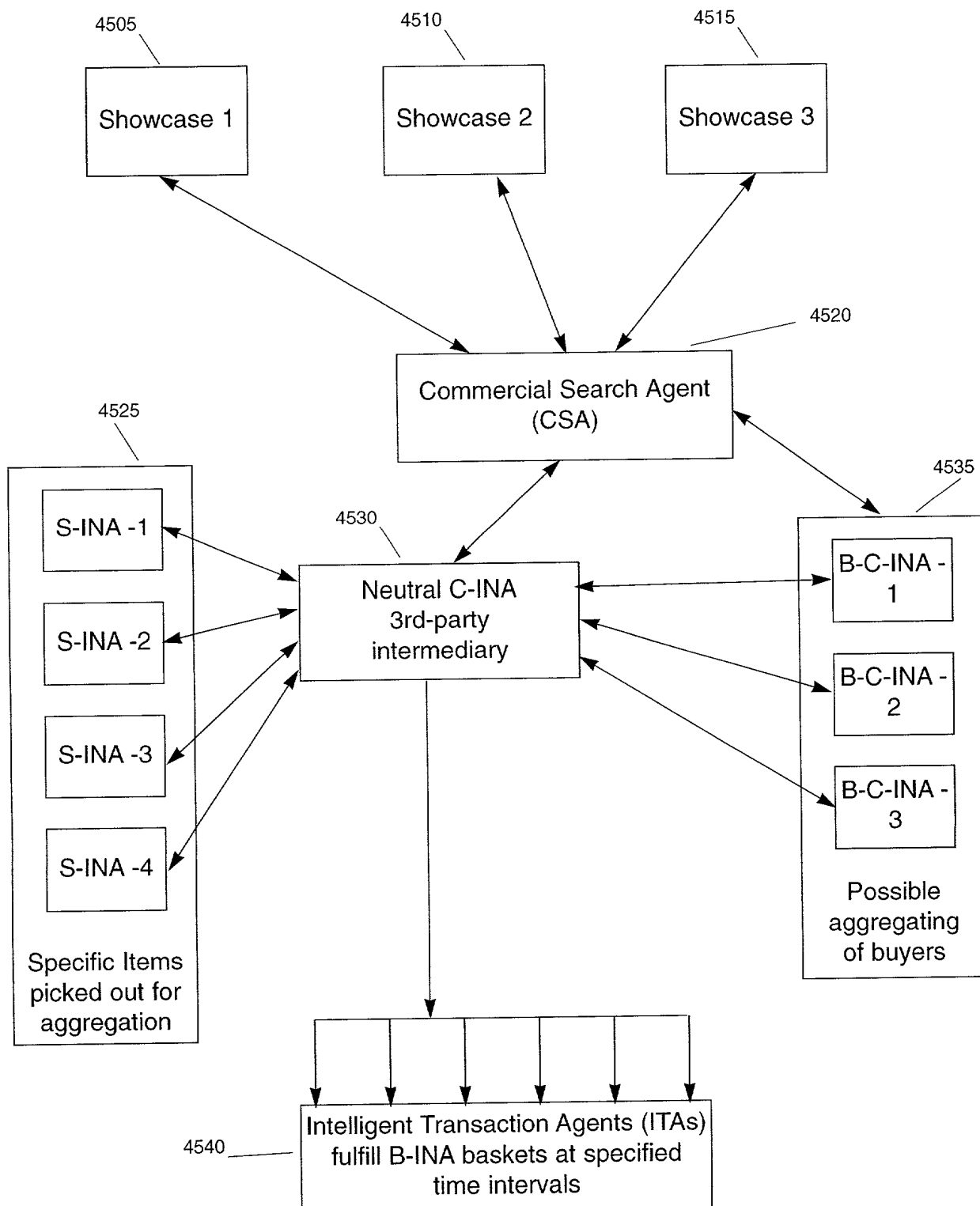


Fig. 47: C-INA Transaction Initiation Sources

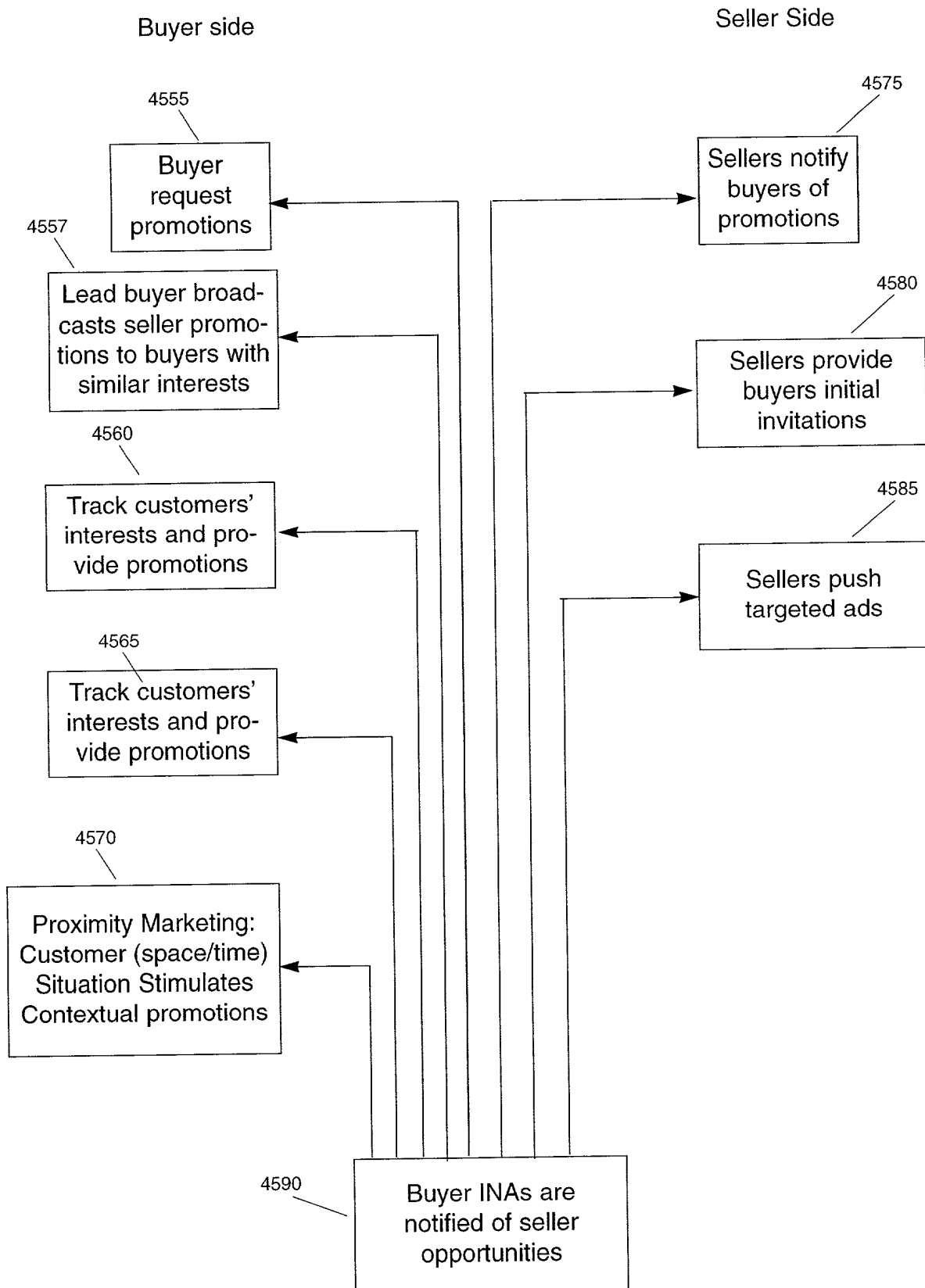


Fig. 49: Automated Aggregation Category Structures

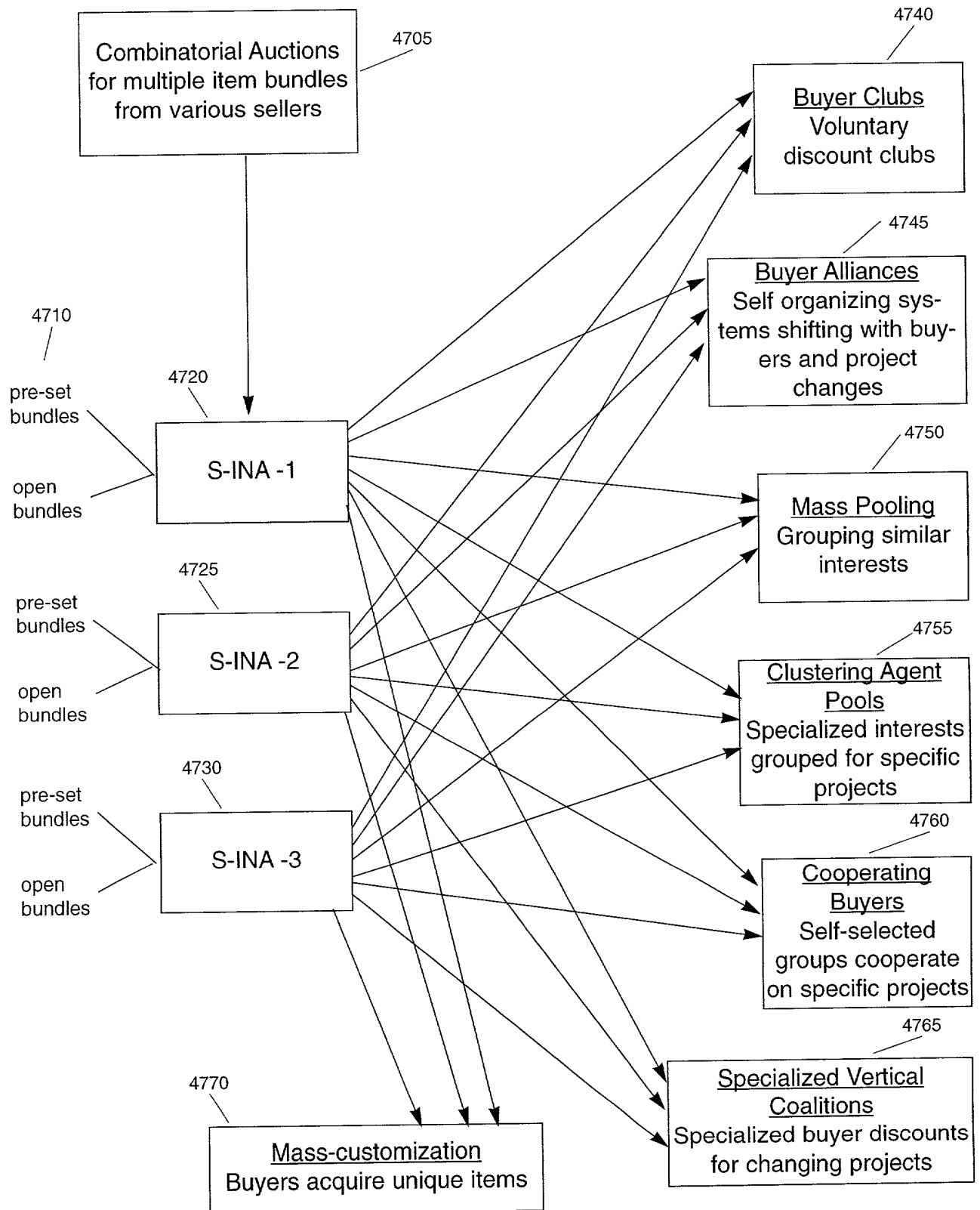


Fig. 50: Aggregation I – Mass Pooling

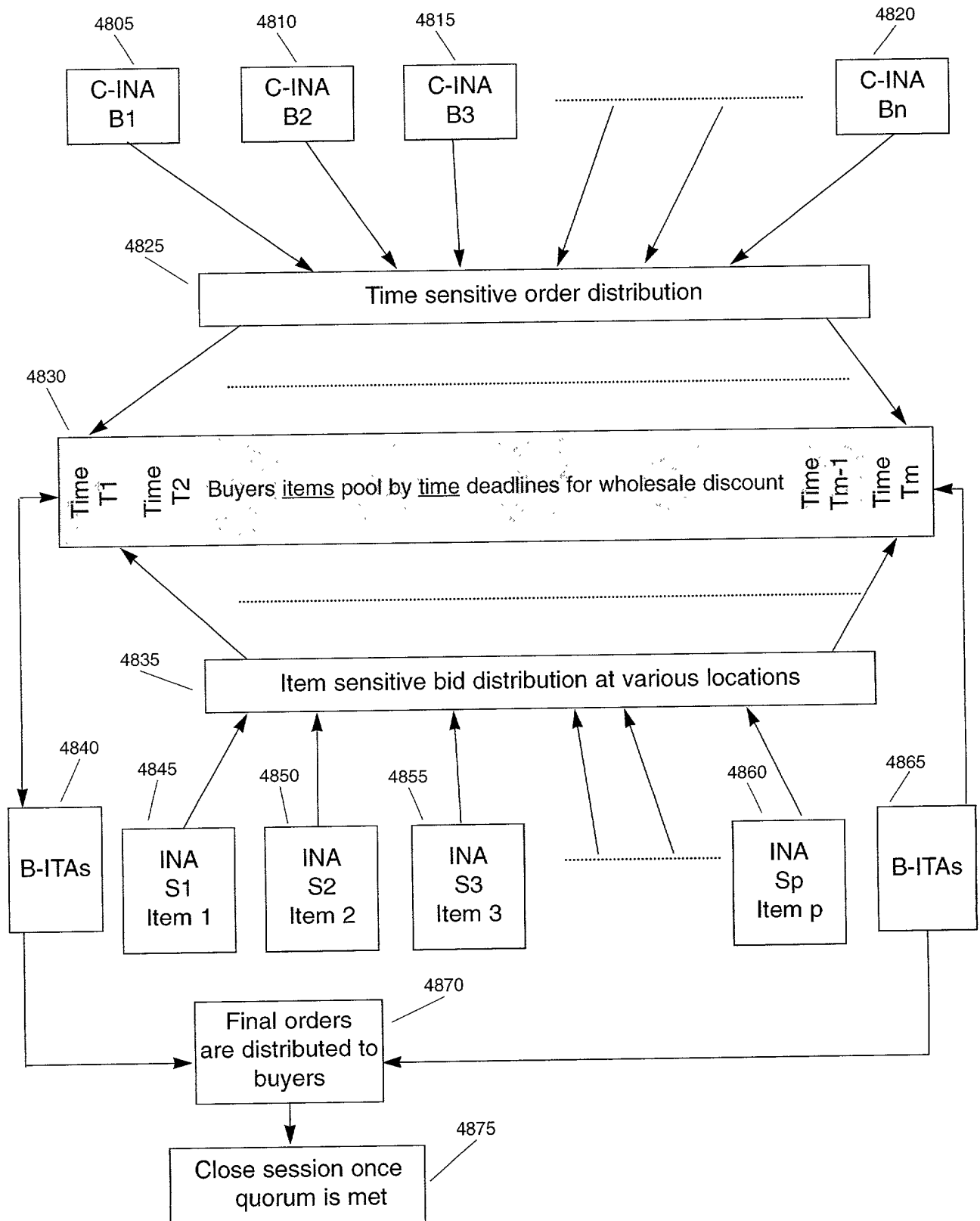


Fig. 51: Aggregation II–Disintermediated Aggregation Method Prior To Negotiation

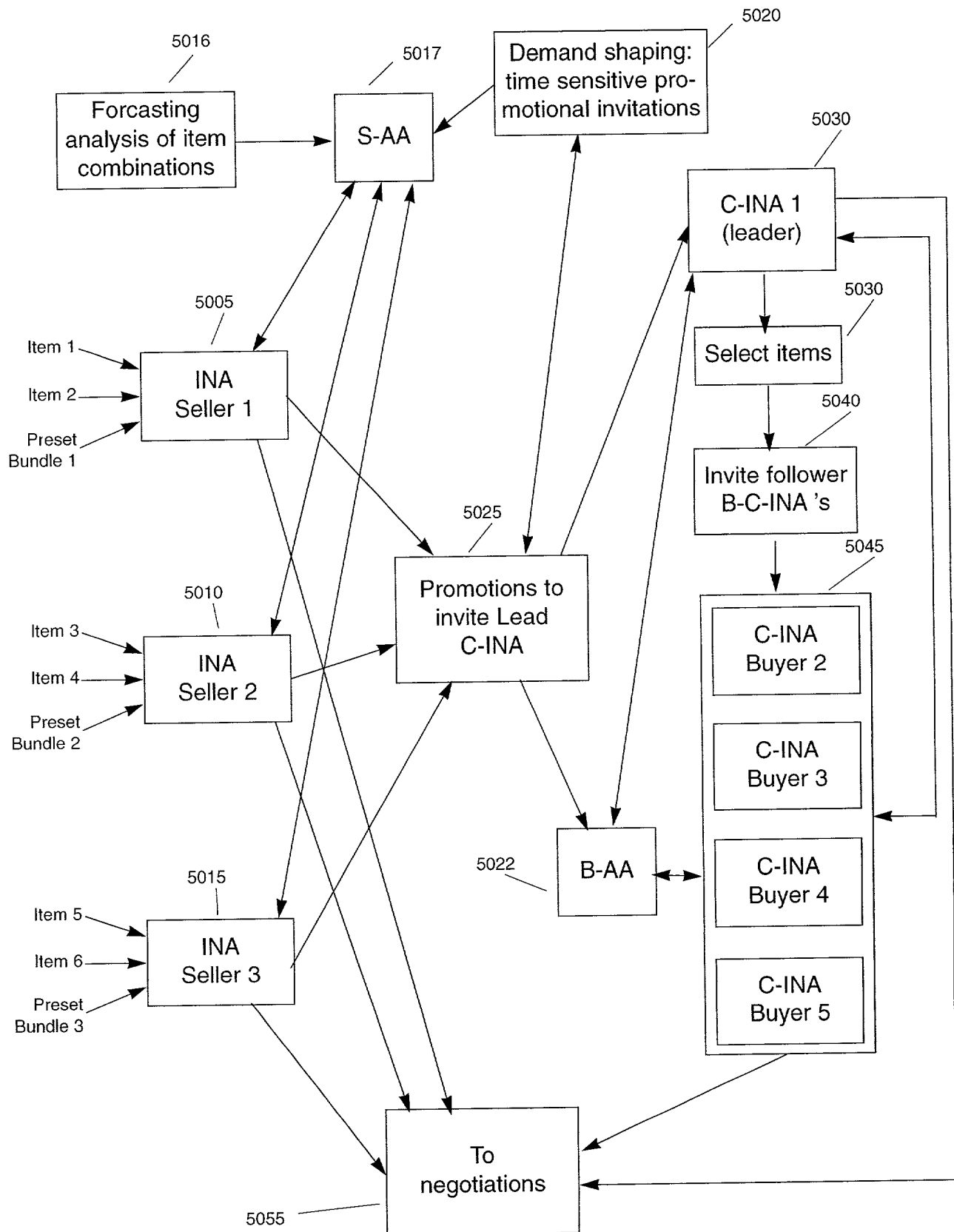
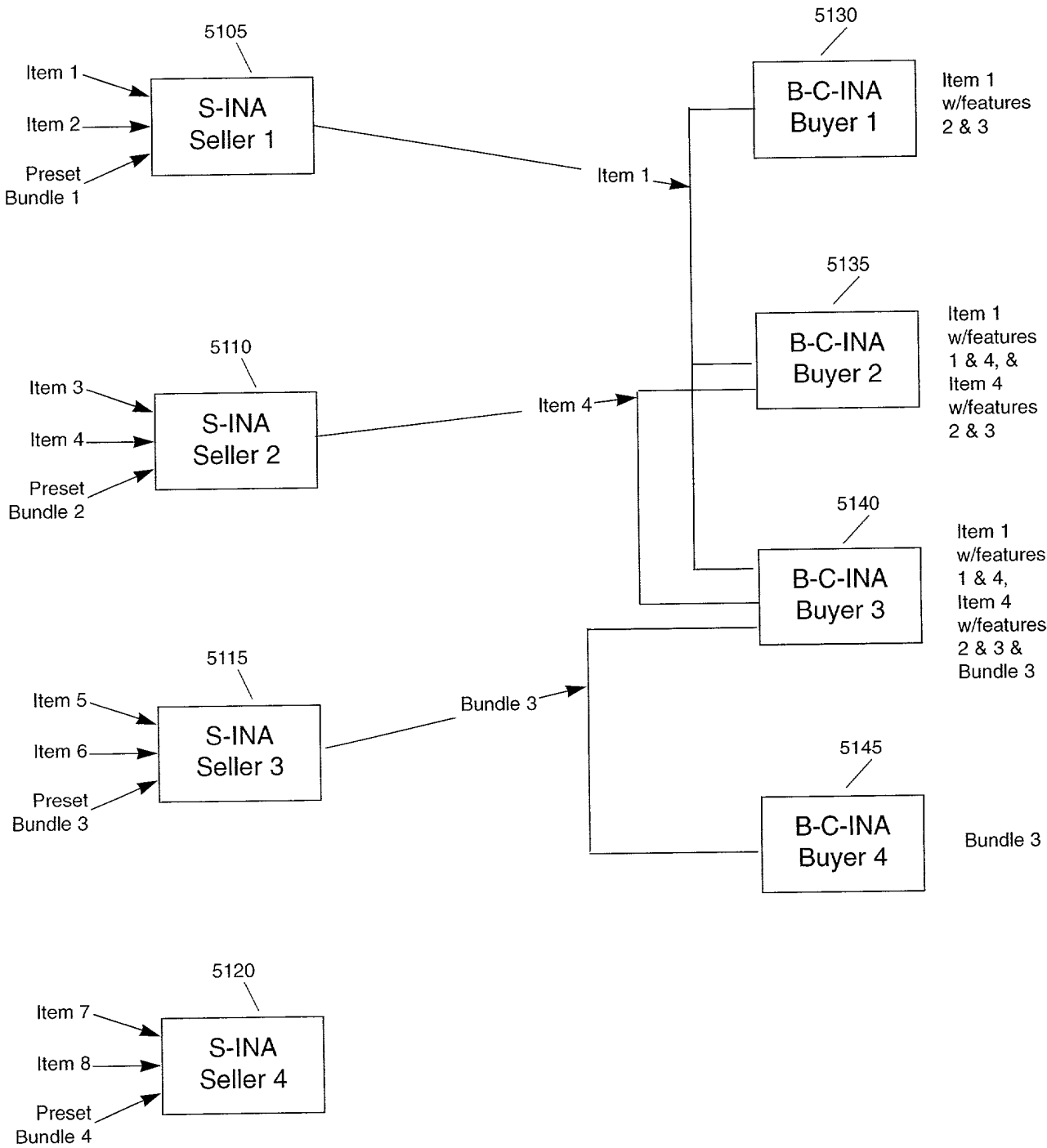
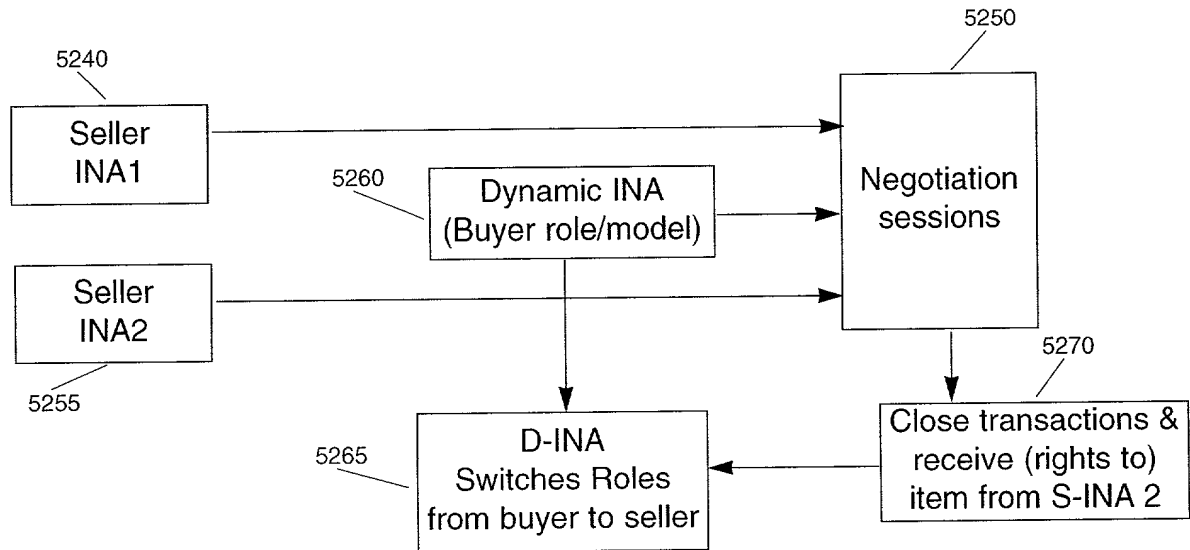


Fig. 52: Aggregation III –
Disintermediated Mass Customization

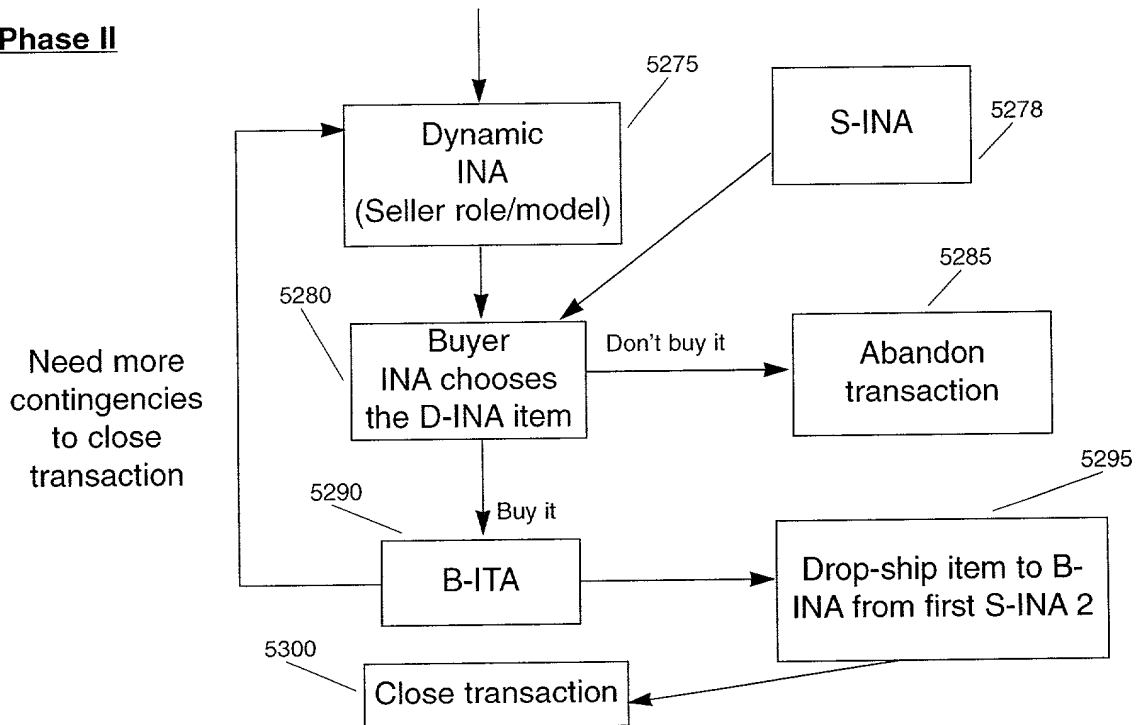


**Fig. 53: Dynamic D-INA 's Double-agents:
Arbitrage Applications**

Phase I



Phase II



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Fig. 54: Traditional Combinatorial Auction with Intermediary: Between Single Seller and Multiple Buyers

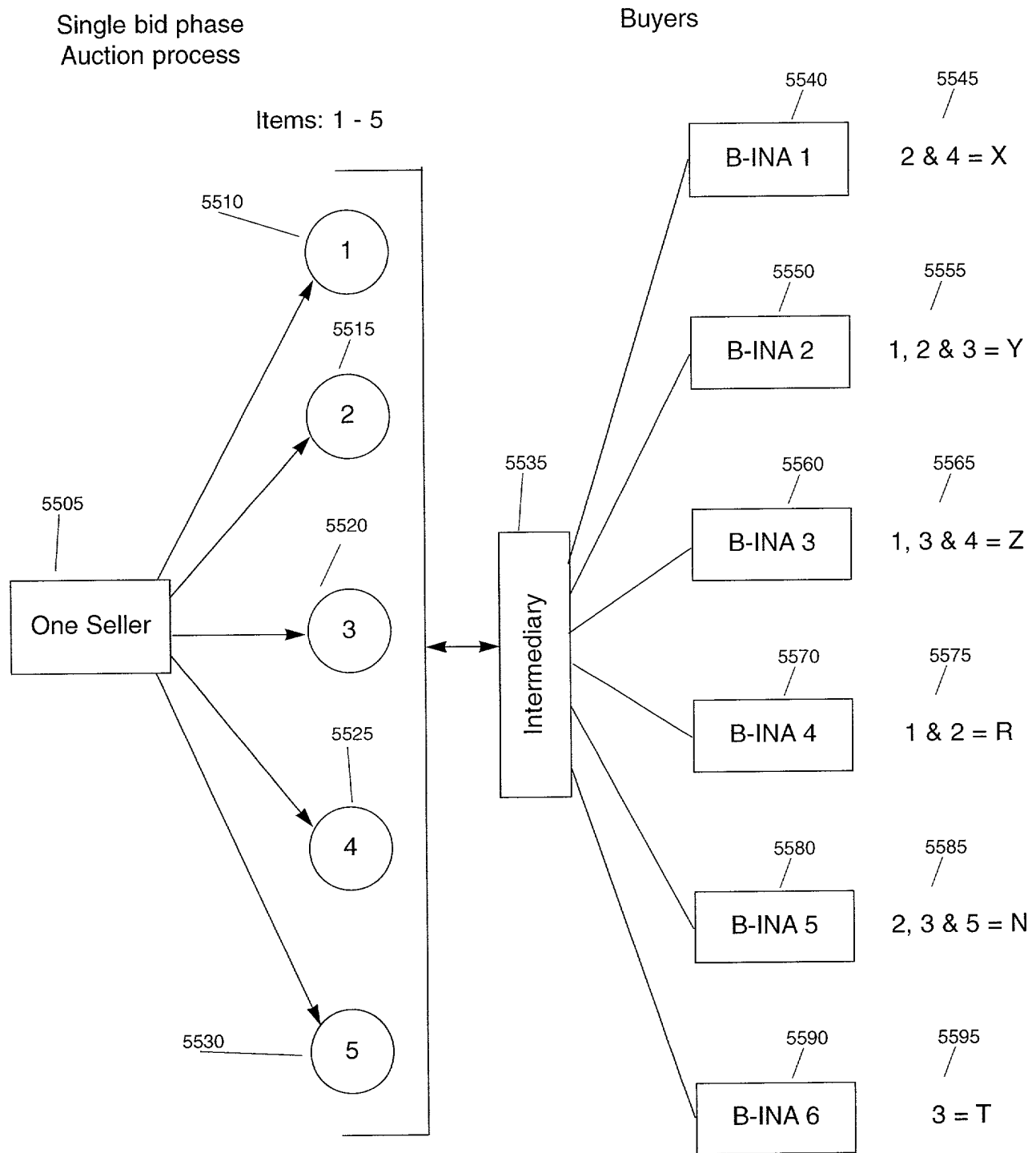


Fig. 55: INA Combinatorial [Double] Auction between Single Seller with Multiple Items and Multiple Buyers

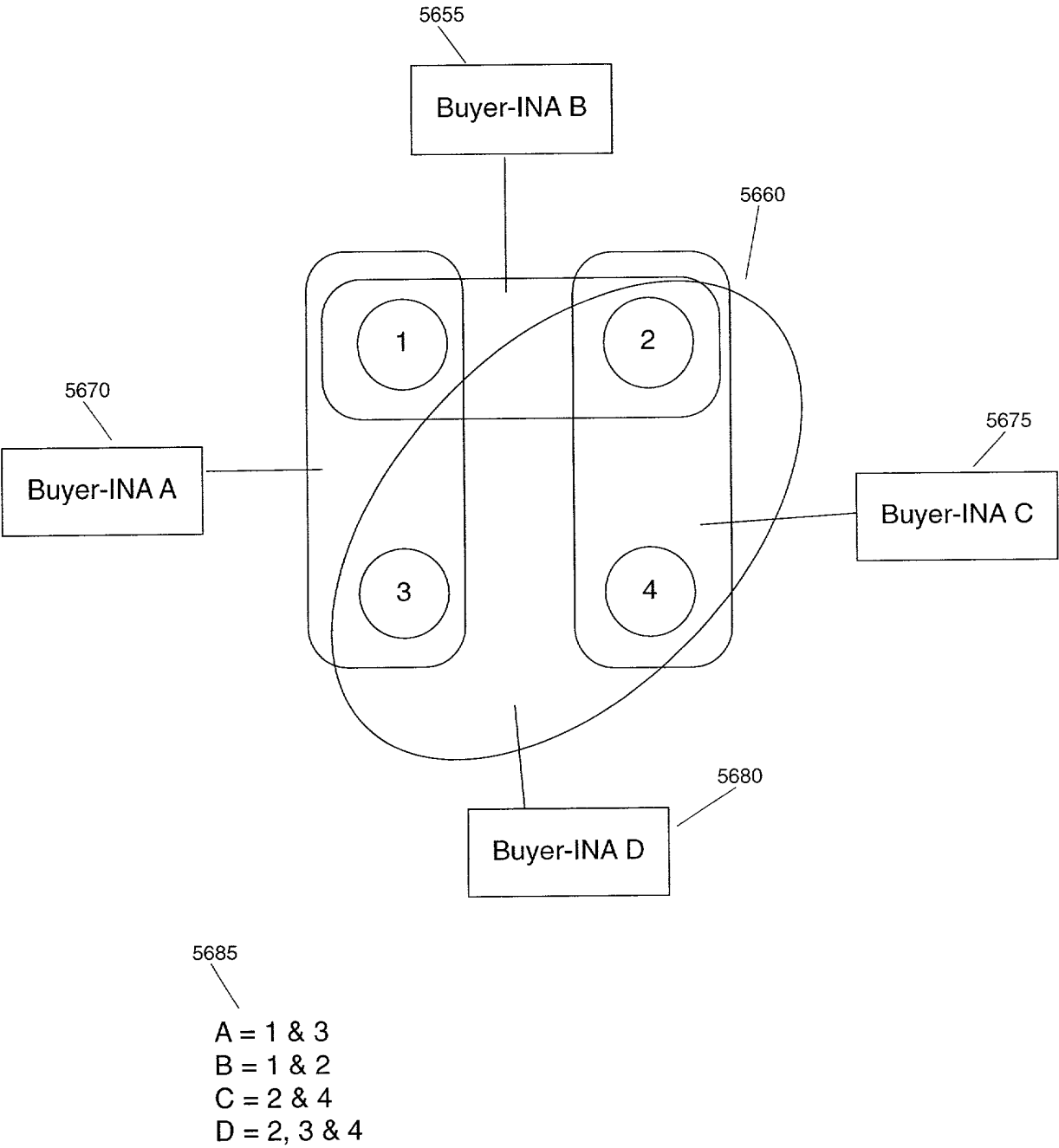


Fig. 56: Final Session
Winner Determination of Interactive Multi-lateral Auction

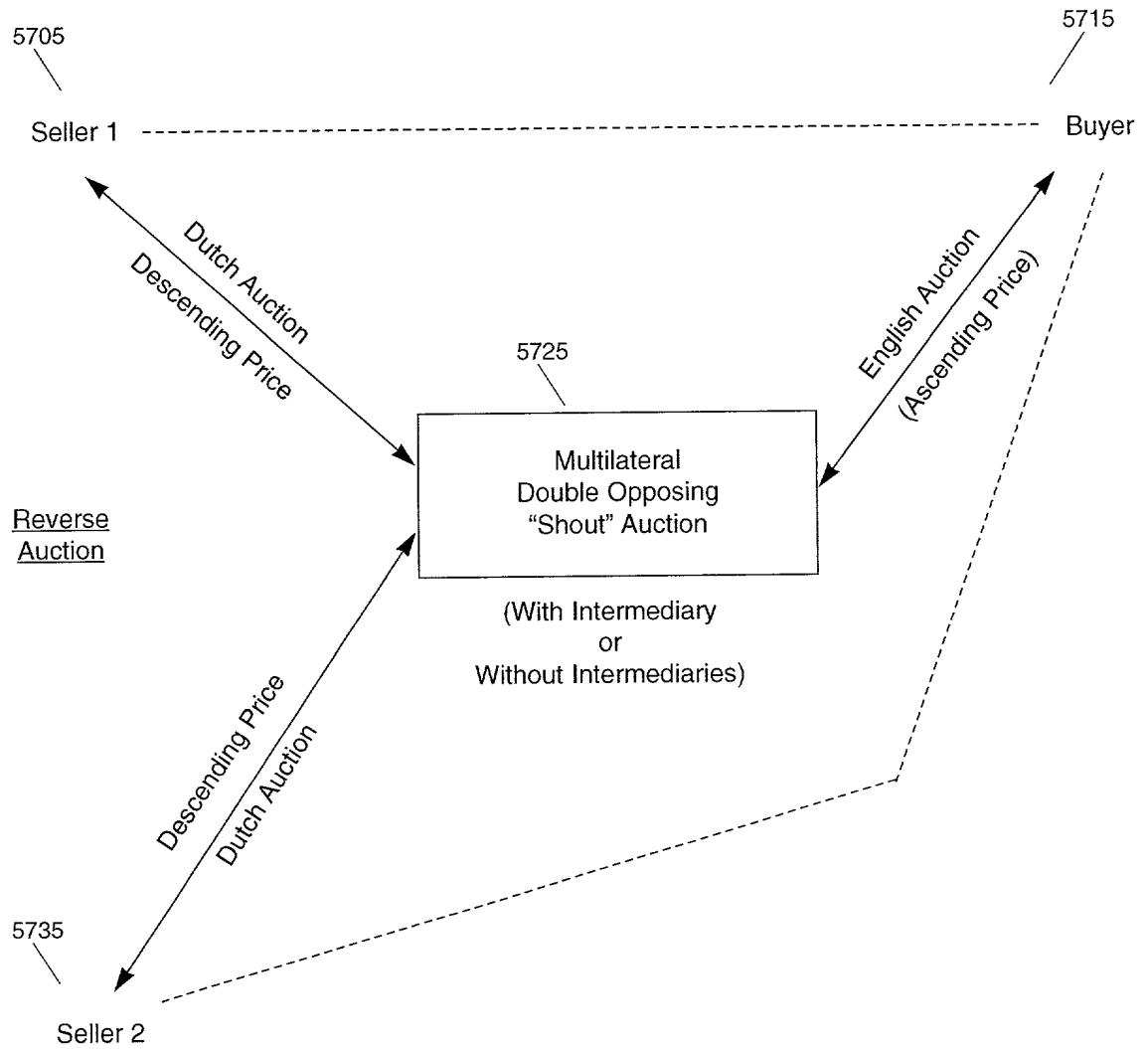


FIG. 56: Final Session

Fig. 57: Factor Filters

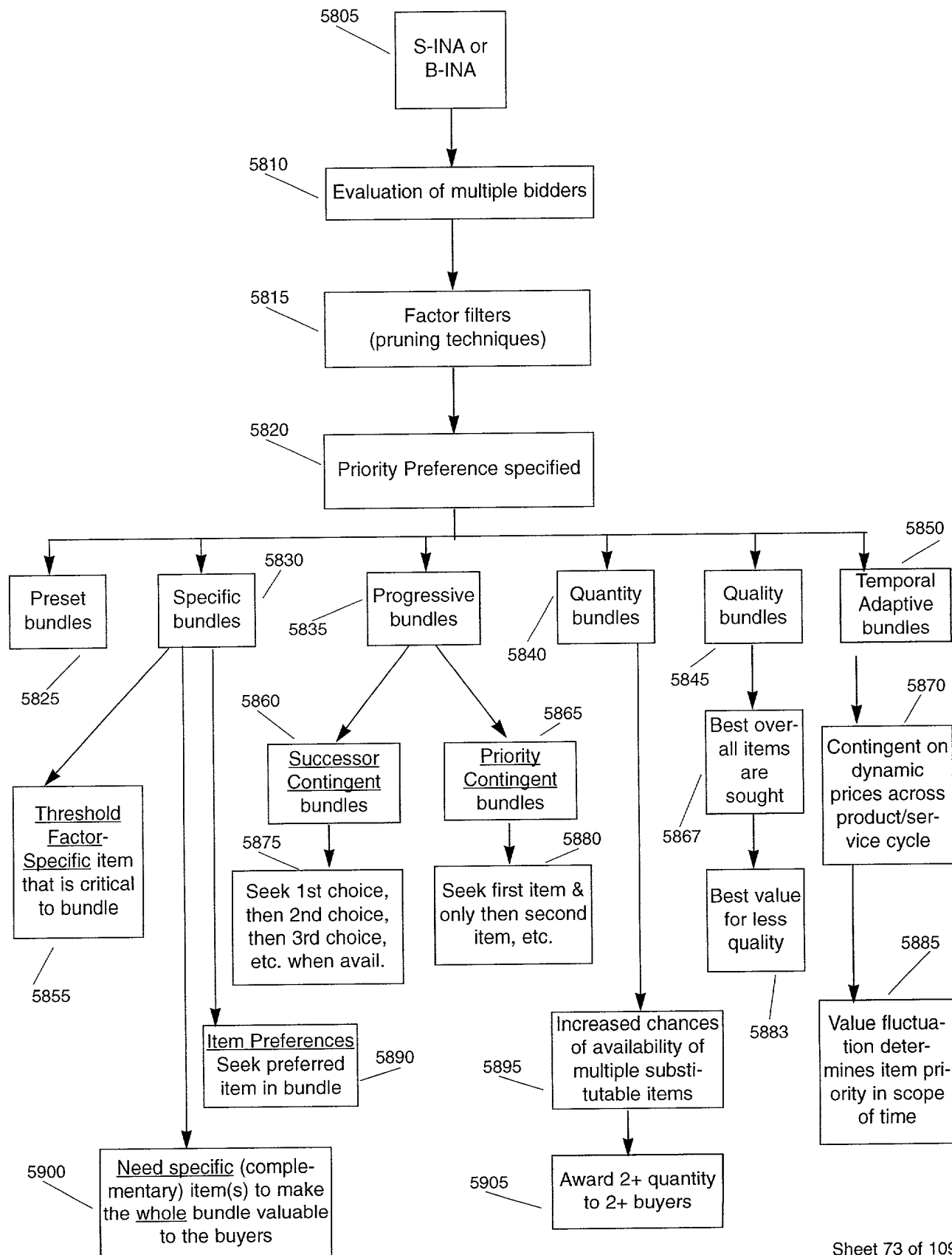


Fig. 58: Disintermediated Multi-item Bidding From One Seller To Multiple Buyers

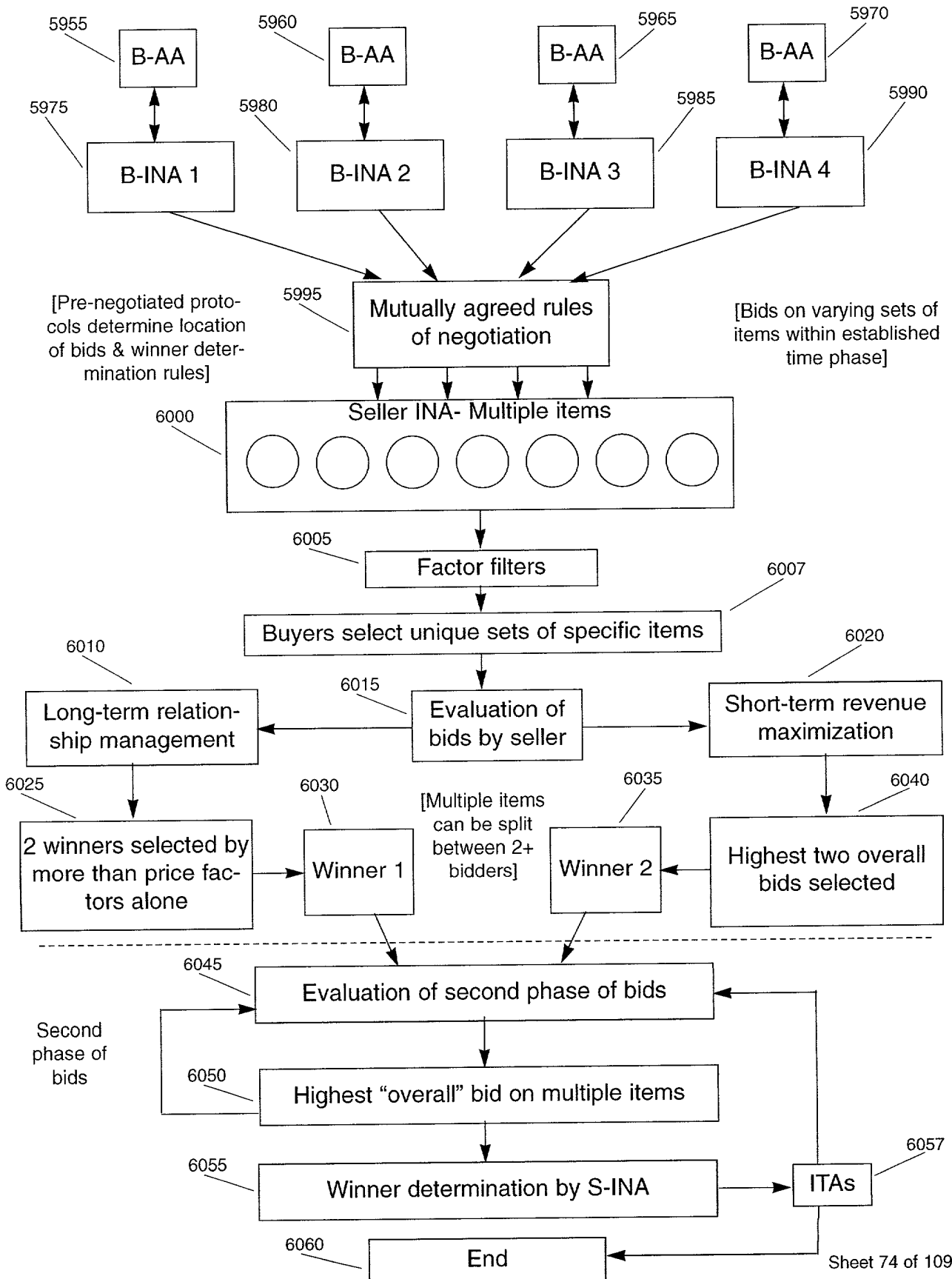


Fig. 59: Disintermediated Multi-item Bidding between Multiple Sellers and Single Buyer

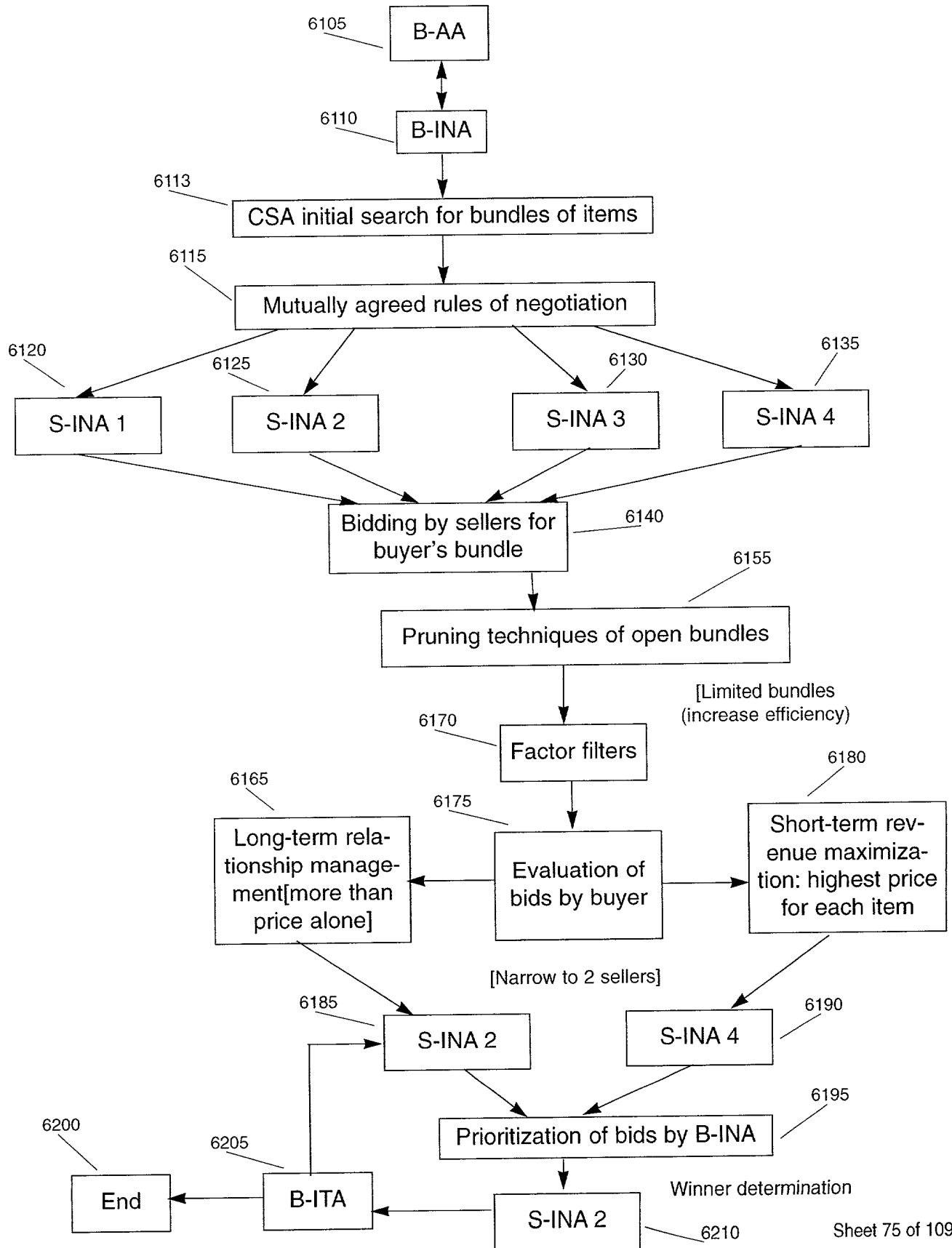


Fig. 60: Disintermediated Aggregation of Pre-Set Bundles between Multiple Sellers & Multiple Buyers

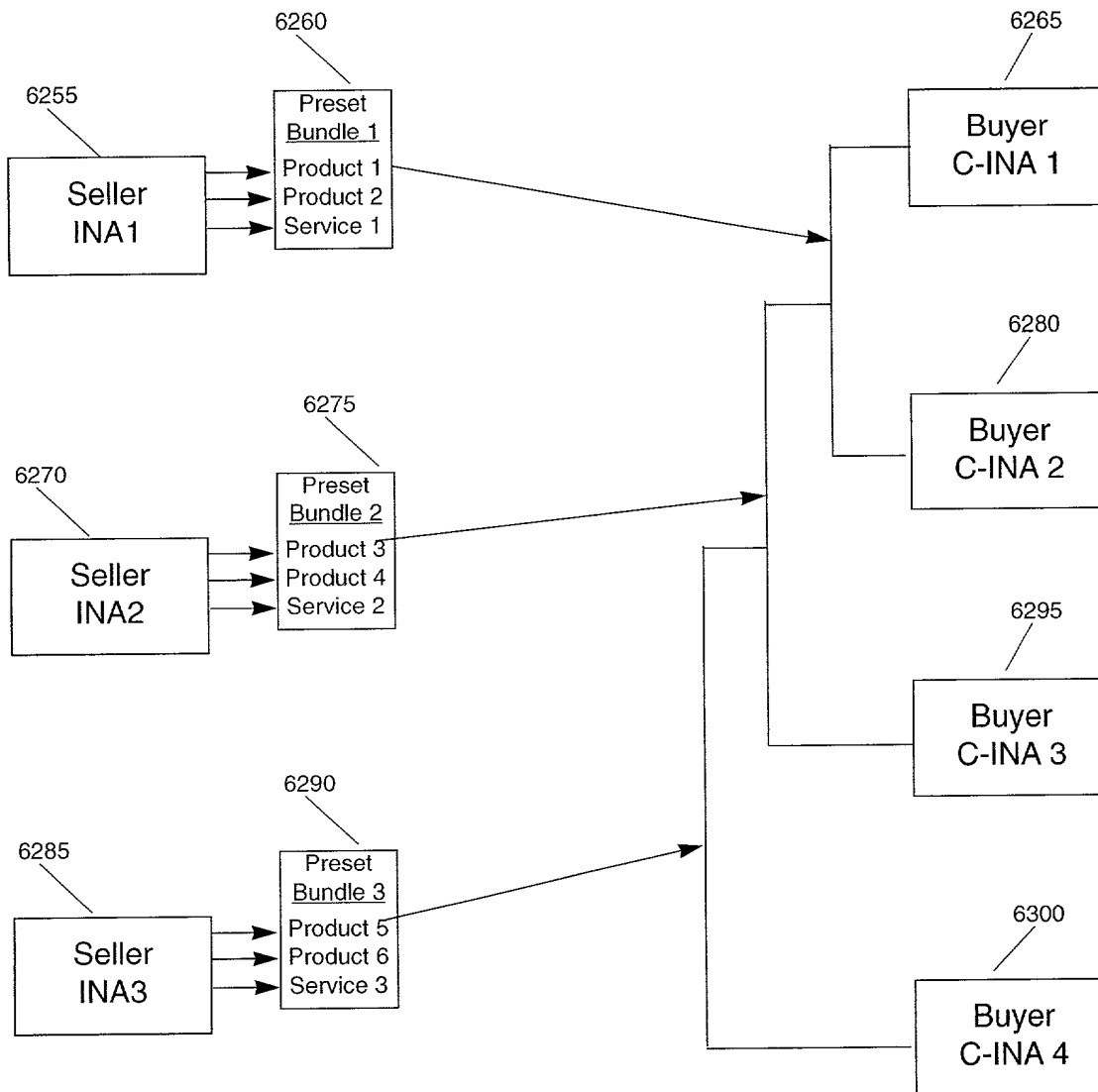
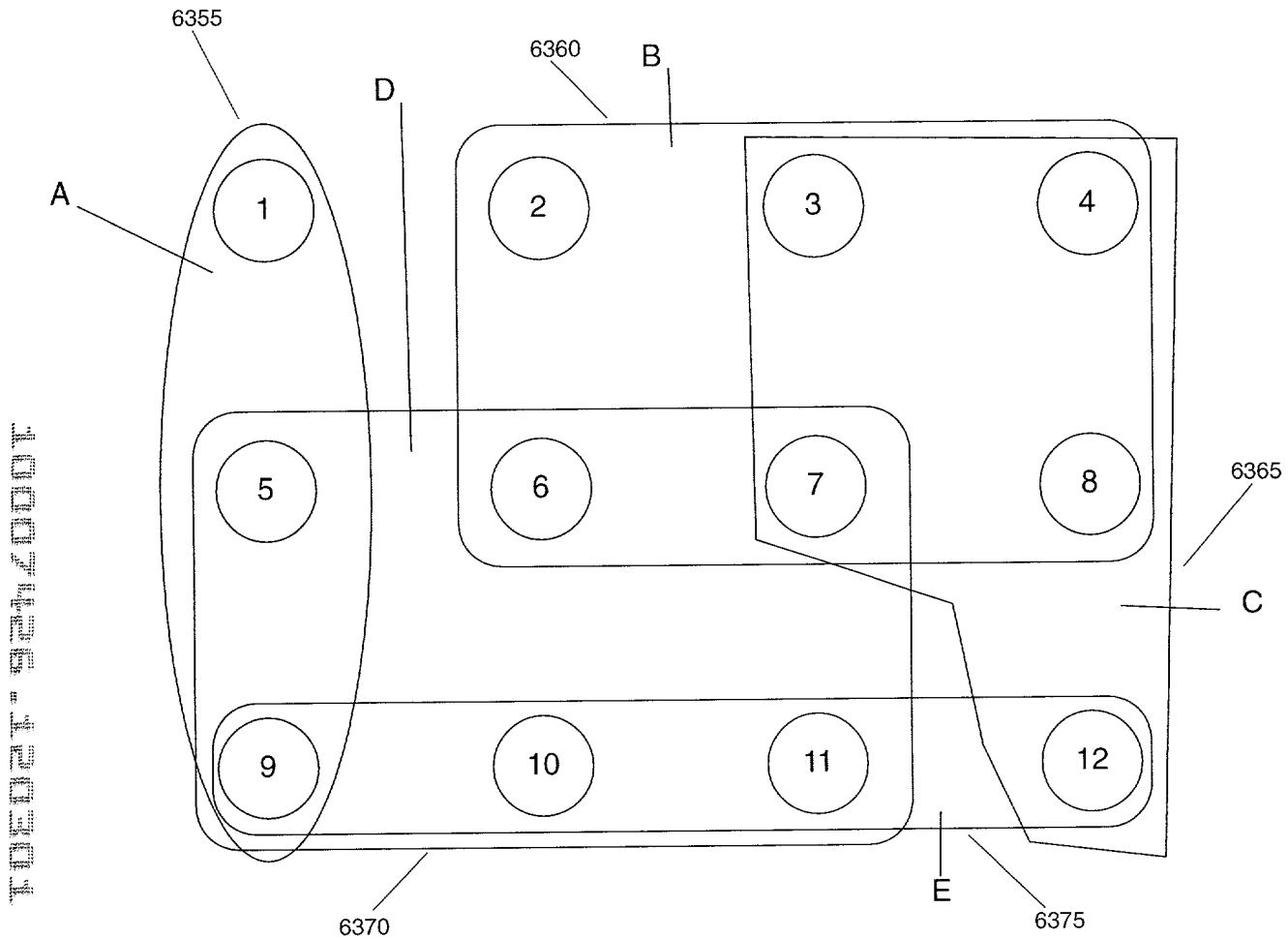


FIG. 60: Disintermediated Aggregation of Pre-Set Bundles between Multiple Sellers & Multiple Buyers

Fig. 61: Disintermediated Multi-item Bidding Between Multiple Sellers & Multiple Buyers



1 – 4: Seller I
5 – 8: Seller II
9 – 12: Seller III

Buyer Bidder A: 1, 5, 9
Buyer Bidder B: 2, 3, 4, 6, 7, 8
Buyer Bidder C: 3, 4, 7, 8, 12
Buyer Bidder D: 5, 6, 7, 9, 10, 11
Buyer Bidder E: 9, 10, 11, 12

Fig. 62A: Disintermediated Aggregation Of Multiple-item Bundles Bidding From Multiple Sellers To Multiple Buyers using C-INA 's

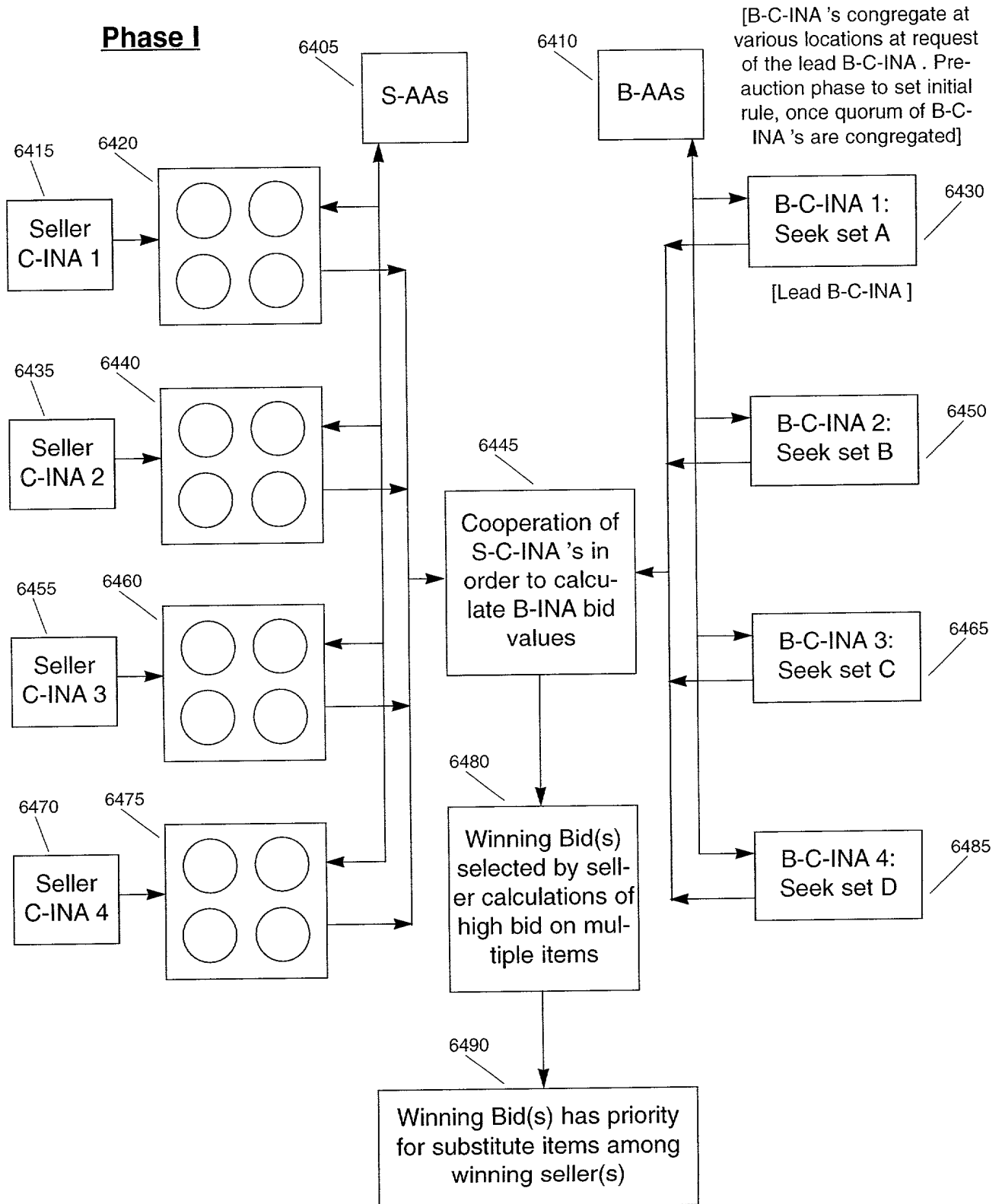


Fig. 62B: Disintermediated Aggregation Of Multiple-item Bundles Bidding From Multiple Sellers To Multiple Buyers using C-INA 's (continued)

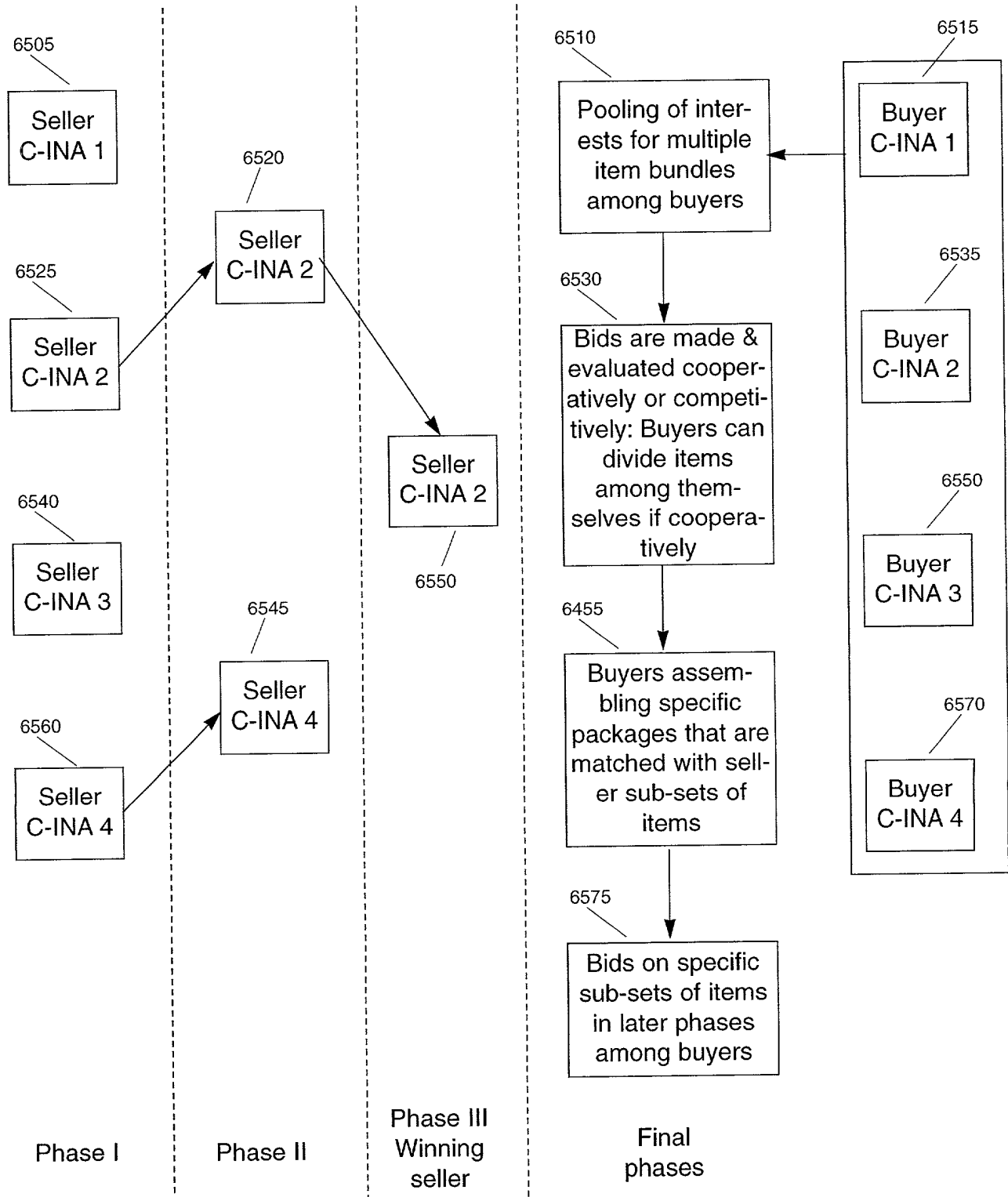


Fig. 63: Disintermediated Arbitrage Of Multi-item Bundles Between Multiple Sellers & Multiple Buyers using D-INA 's

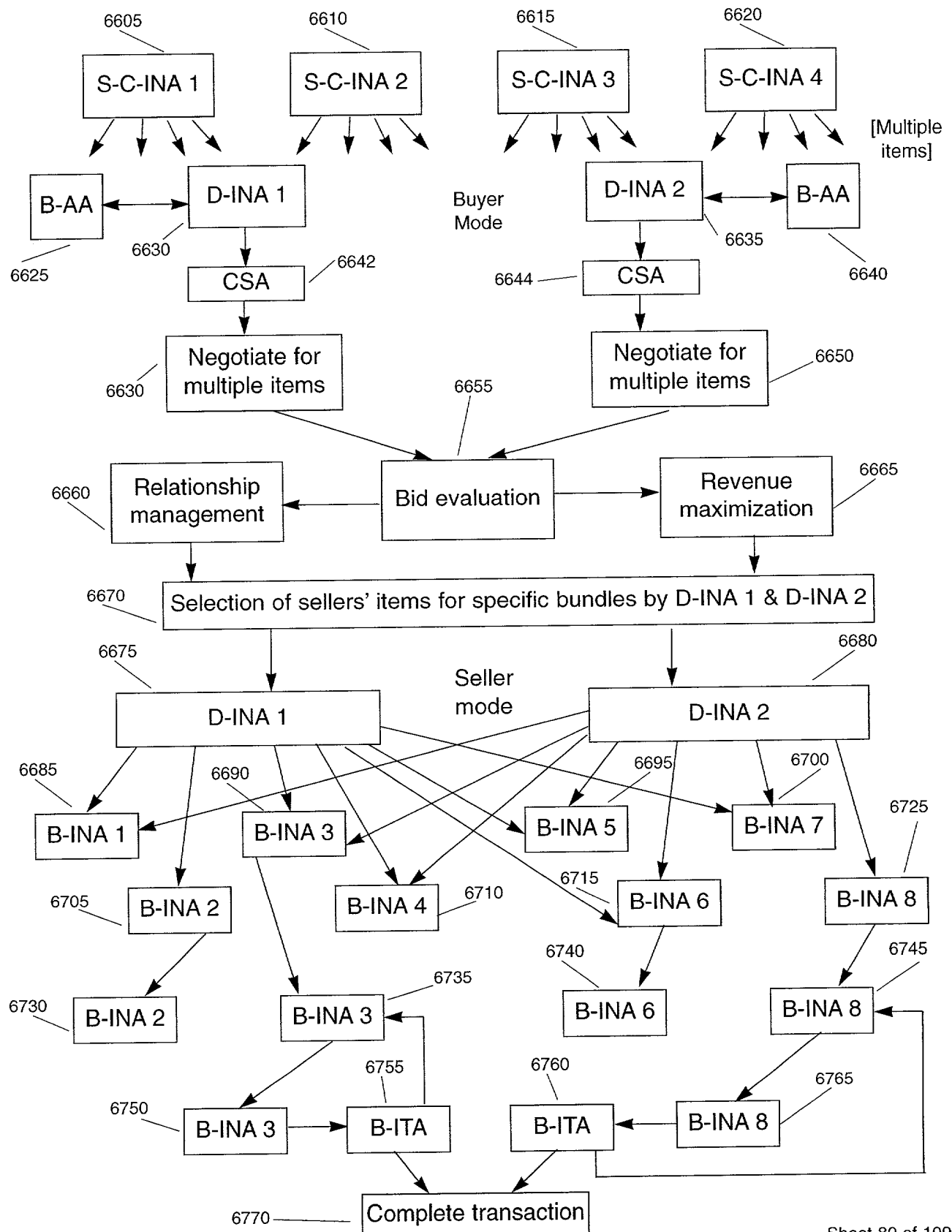


Fig. 64: Multifactorial Bidding Approaches

Sorting By Item Variables

Quality

Attribute – color, style, etc.

Quantity

Availability (now or later)

Delivery Time & Terms

Size

Dynamic Pricing Across product/service cycle

Brand/manufacturer

Configuration

Features

Additional options

Combinations of various features

Price

Payment Method

Payment Terms

Location

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Fig. 65: Example of Multiple Feature Factors: Personal Computer Configurations

| Manu. | CPU/ Mother board | Brand | OS | RAM | HDD | Modem & ISP contract. | DVD | Monitor | Price |
|-------|-------------------------|---------|-------|-----|-----|-----------------------------|---------|---------|-------|
| Intel | 500-ABC | IBM | MS | 64 | 10 | 56 kbs | DVD | 15 in | |
| Intel | 500-ABC | Dell | MS | 128 | 10 | 56 kbs | DVD | 17 in | |
| AMD | 500-XYZ | Gateway | MS | 128 | 20 | 56/ISP | DVD | 19 in | |
| AMD | 800-XYZ | HP | MS | 128 | 0 | 56/ISP | DVD | 17 in | |
| AMD | 800-ABC | IBM | MS | 256 | 20 | 56/ISP | DVD | 17 in | |
| AMD | 800-ABC | Dell | Linux | 256 | 20 | 128 | DVD-RAM | 17 in | |
| Intel | 800-ABC | Gateway | Linux | 256 | 30 | 128 | DVD-RAM | 17 in | |
| Intel | 800-ABC | HP | Linux | 256 | 30 | 128 | DVD-RAM | 17 in | |
| Intel | 1.2-XYZ | IBM | Linux | 256 | 30 | 128/ISP | DVD-RAM | 17 in | |
| Intel | 1.2-XYZ | Dell | Linux | 256 | 40 | 128/ISP | DVD-RAM | 17 in | |
| Intel | 1.2-ABC | Gateway | MS | 256 | 40 | 128/ISP | DVD-RAM | 19 in | |
| Intel | 1.2-ABC | HP | MS | 256 | 40 | 256 | DVD-RAM | 19 in | |
| AMD | 1.2-ABC | IBM | MS | 256 | 40 | 256 | DVD-RAM | 19 in | |
| AMD | 1.2-ABC | Dell | MS | 512 | 60 | 256 | DVD | 19 in | |
| AMD | 1.2-XYZ | Gateway | MS | 512 | 60 | 256/ISP | DVD | 19 in | |
| AMD | 1.8-XYZ | HP | MS | 256 | 60 | 256/ISP | DVD | 19 in | |
| AMD | 1.8-XYZ | IBM | Linux | 256 | 60 | 1.2mbs | DVD-RAM | 21 in | |
| Intel | 1.8-XYZ | Dell | Linux | 256 | 80 | 1.2mbs | DVD-RAM | 21 in | |
| Intel | 1.8-XYZ | Gateway | Linux | 512 | 80 | 1.2mbs | DVD-RAM | 21 in | |
| Intel | 2.4-ABC | HP | Linux | 512 | 80 | 1.2/ISP | DVD-RAM | 21 in | |
| Intel | 2.4-ABC | Sony | MS | 512 | 120 | 1.2/ISP | DVD | 21 in | |
| AMD | 2.4-ABC | Sony | MS | 1.2 | 120 | 1.2/ISP | DVD | 21 in | |

Quantity – Discounts – 2-5, 5-9, 11-19, 21-29, 30-99, 100-499, 500-1999, etc.

FIGURE 65 - 100745

Fig. 66: Examples of Categories of Multi-item Bundles

1. Computer Hardware configurations – RAM, HDD, CPU, monitor
2. Computer Hardware& Software
3. Computer Hardware & Services
4. Office equipment computer, printer, copier, fax, phone
5. Telephone equipment & services – local and long distance
6. Telecom capacity – rev. maximization across demand cycle
7. Electronic equipment – A/V combinations & software accessories
8. Photo equipment – camera, lenses, accessories, film, digital media
9. Airline tickets – time constraints to sell multiple seats to maximize revenue
10. Machines, machine parts, machine accessories
11. Cars/trucks & accessories
12. Wardrobe combinations, pants, shirts, coats
13. Real Estate – contiguous properties
14. Communications spectrum – contiguous properties
15. Gems
16. Railroad & trucking scheduling
17. Art, antiques, rugs, etc.
18. Housing combinations
19. Intellectual Property combinations
20. Pharmaceuticals
21. Chemicals

Fig. 67: S-ITA System Architecture

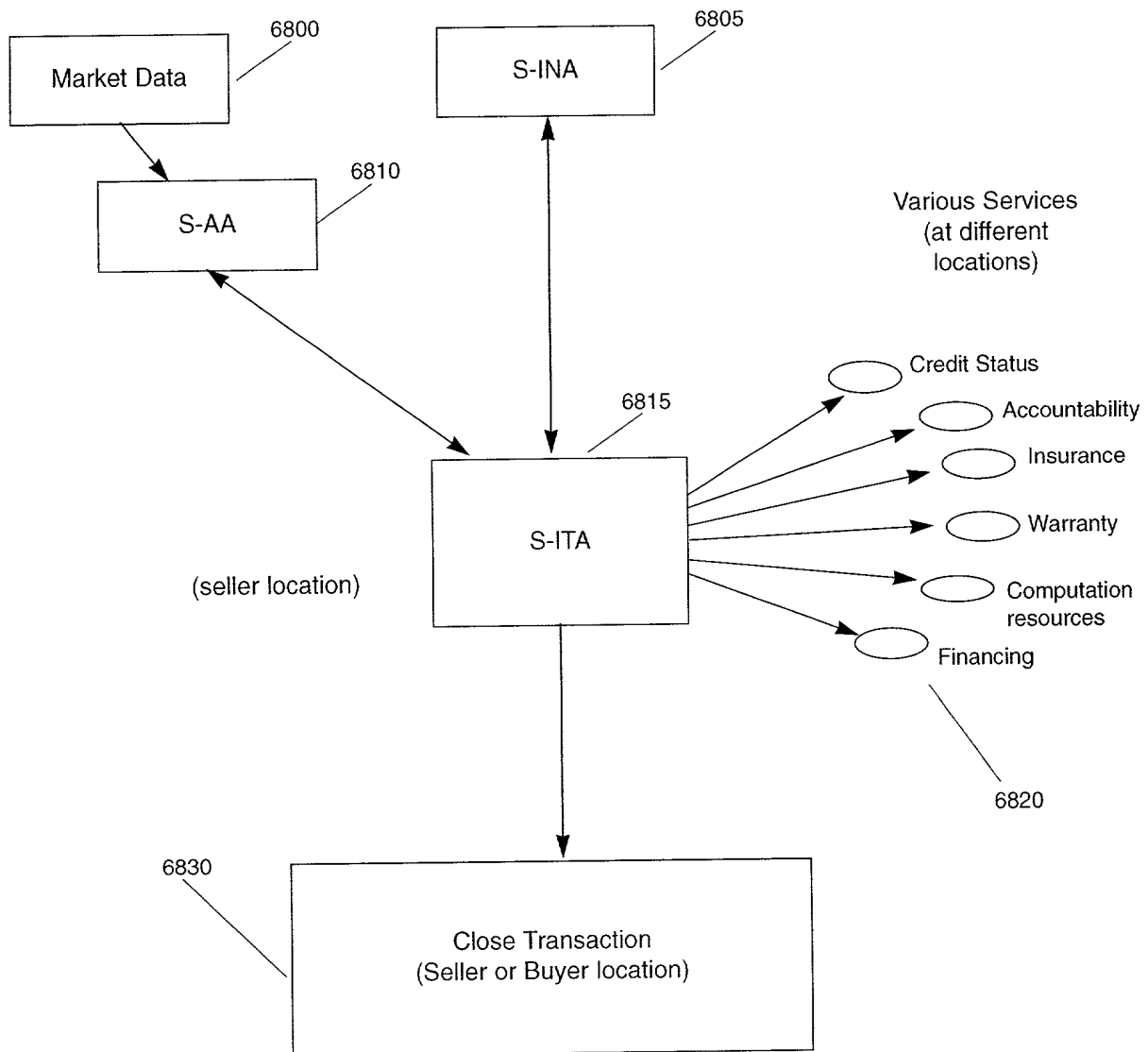
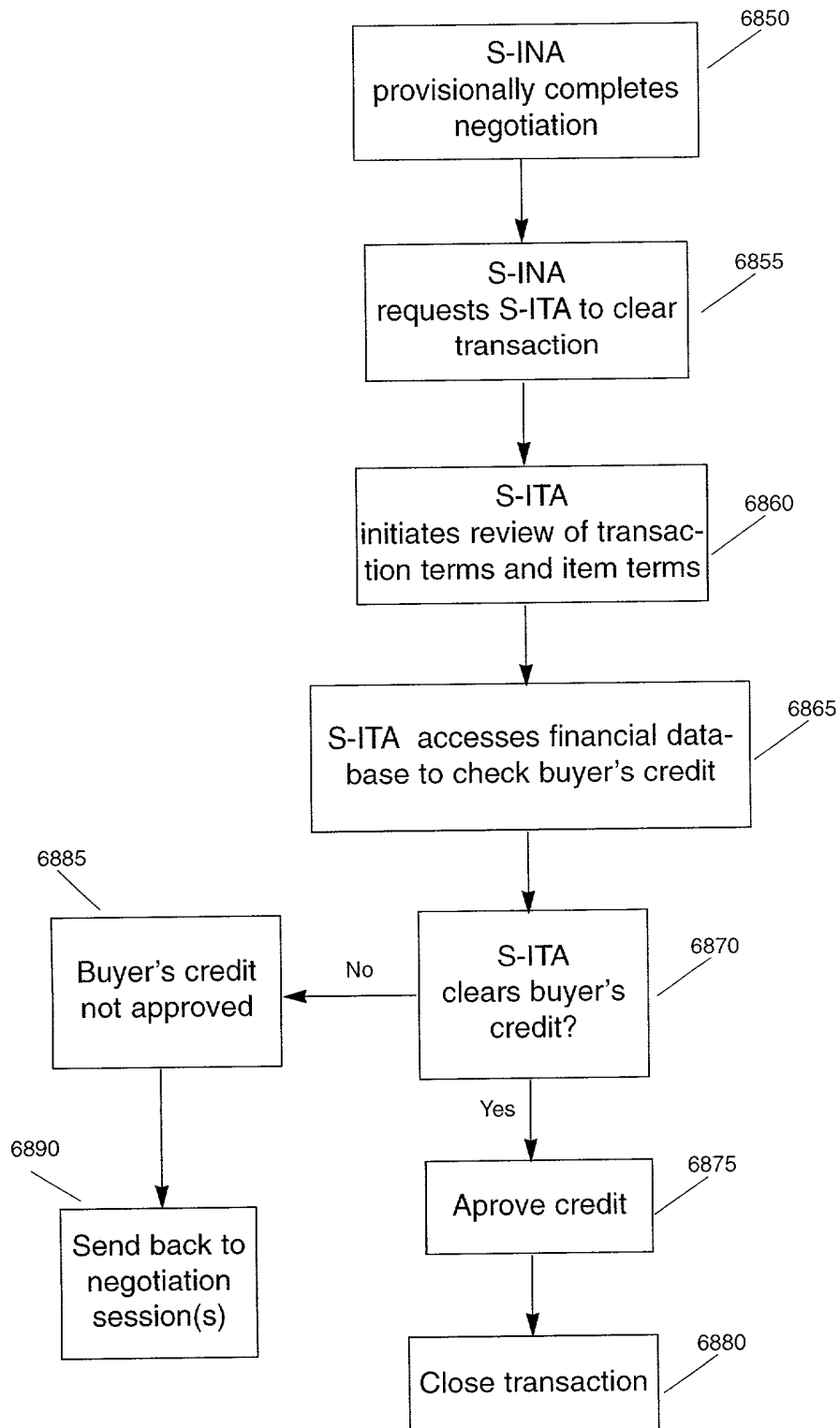


Fig. 68: S-ITA Operation



**Fig. 69: S-ITA and B-ITA System Process
in Final Negotiation with One Seller**

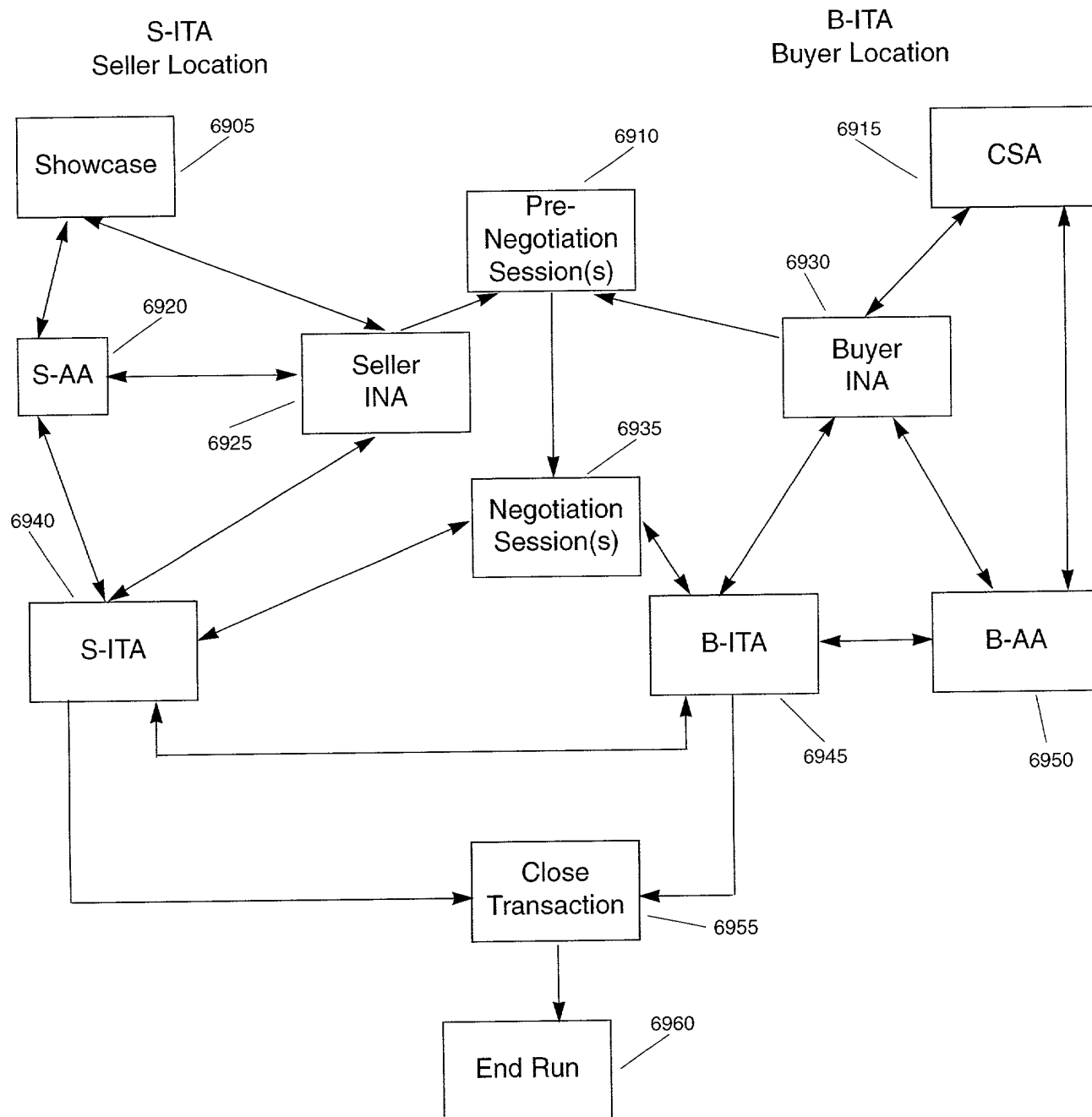


Fig. 70: ITA Service Categories: Buyer & Seller Roles

| <u>s – ITA Services</u> | <u>b – ITA Services</u> | <u>dual – ITA Services</u> |
|---------------------------------|--------------------------------|---------------------------------|
| <u>Info.</u> | <u>Info.</u> | <u>Info.</u> |
| <u>AA functions</u> | <u>AA functions</u> | |
| Superscore | Info about market, companies., | |
| Accountability | economy, industry, | |
| Credit info. | products, etc. | |
| <u>Services</u> | <u>Services</u> | <u>Services</u> |
| Compliance – legal | Promotion discounts | Compliance – legal |
| Compliance – tax | Warranty | Compliance – tax |
| RMO's | Insurance | RMO's |
| finance/credit | | finance/credit |
| payment processing | | payment processing |
| Fulfillment – shipping/tracking | | Fulfillment – shipping/tracking |
| due diligence | | due diligence |
| escrow | | escrow |
| report generator | | report generator |
| post-sale feedback | | post-sale feedback |

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Fig. 71: ITA Services

Accountability index  prior experience online
credit score & credit check

Financial credit module

— matching buyer with appropriate lender

Contracting module

Compliance module

Legal compliance

Federal/state/international rules

Tax compliance

International customs compliance

Risk management options

Payment processing module

— method of payments

— billing/invoice

— financial clearing and account crediting

Shipping/ delivery terms/tracking

Warranty Info & conditions

Insurance risks

Bookkeeping & accounting function

Due diligence

Escrow process

Report generator

Accelerated processing for high rated customer

Post sale feedback

Fig. 72: B-INA Micro-agents with Mobility

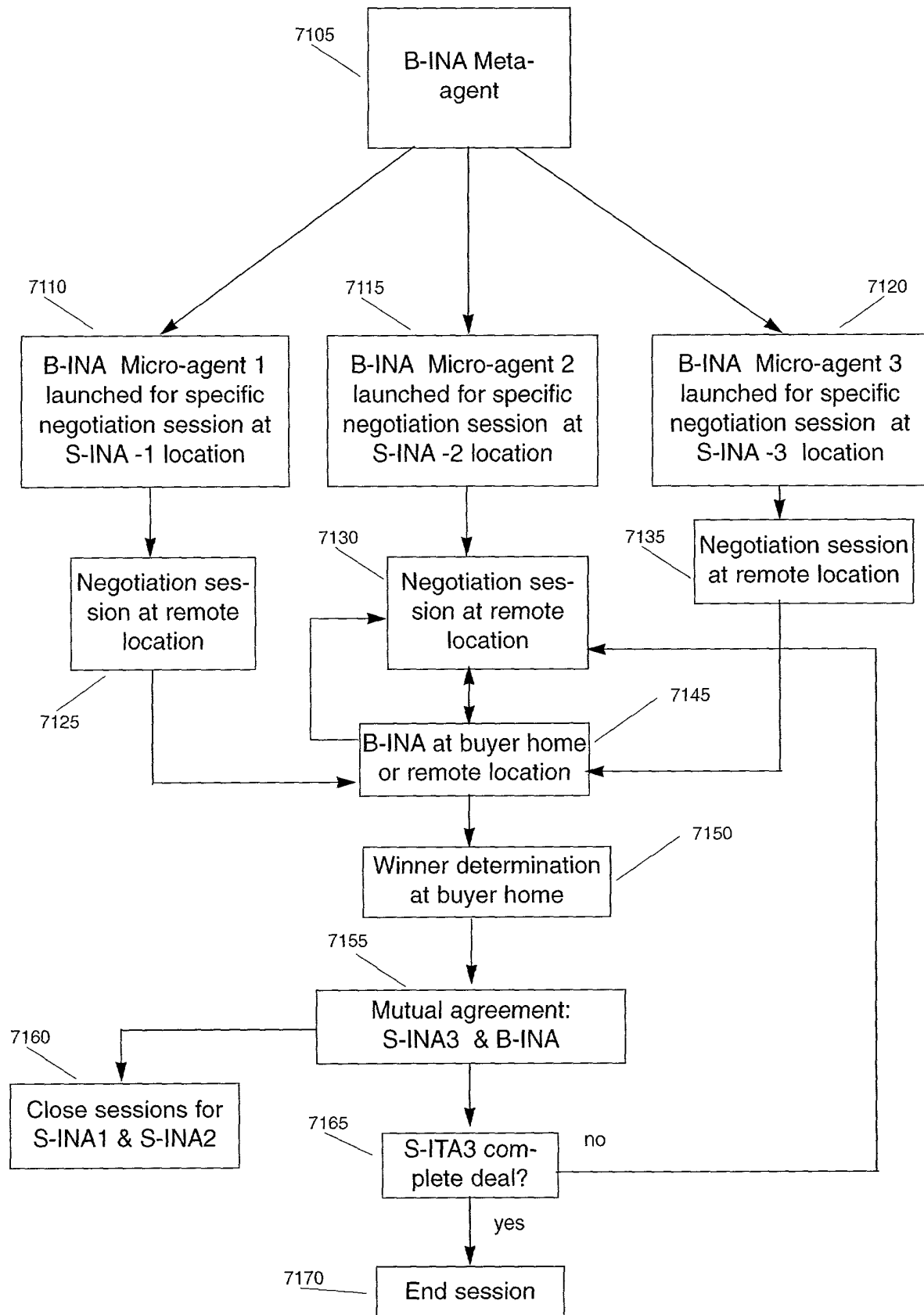


Fig. 73: Genetic Algorithms Applied to Multi-Agent System

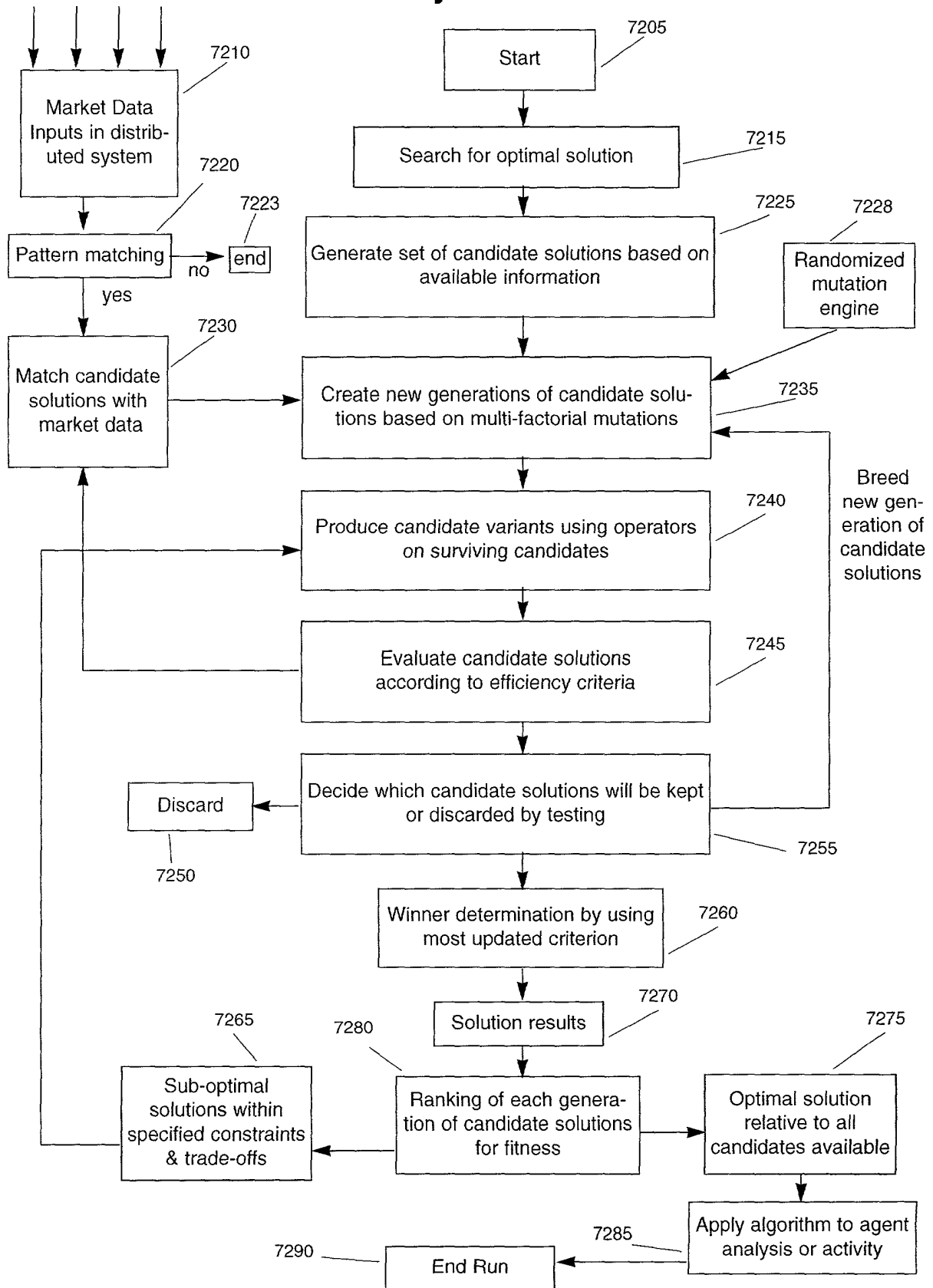


Fig. 74: Neural Networks Applied to Multi-Agent System

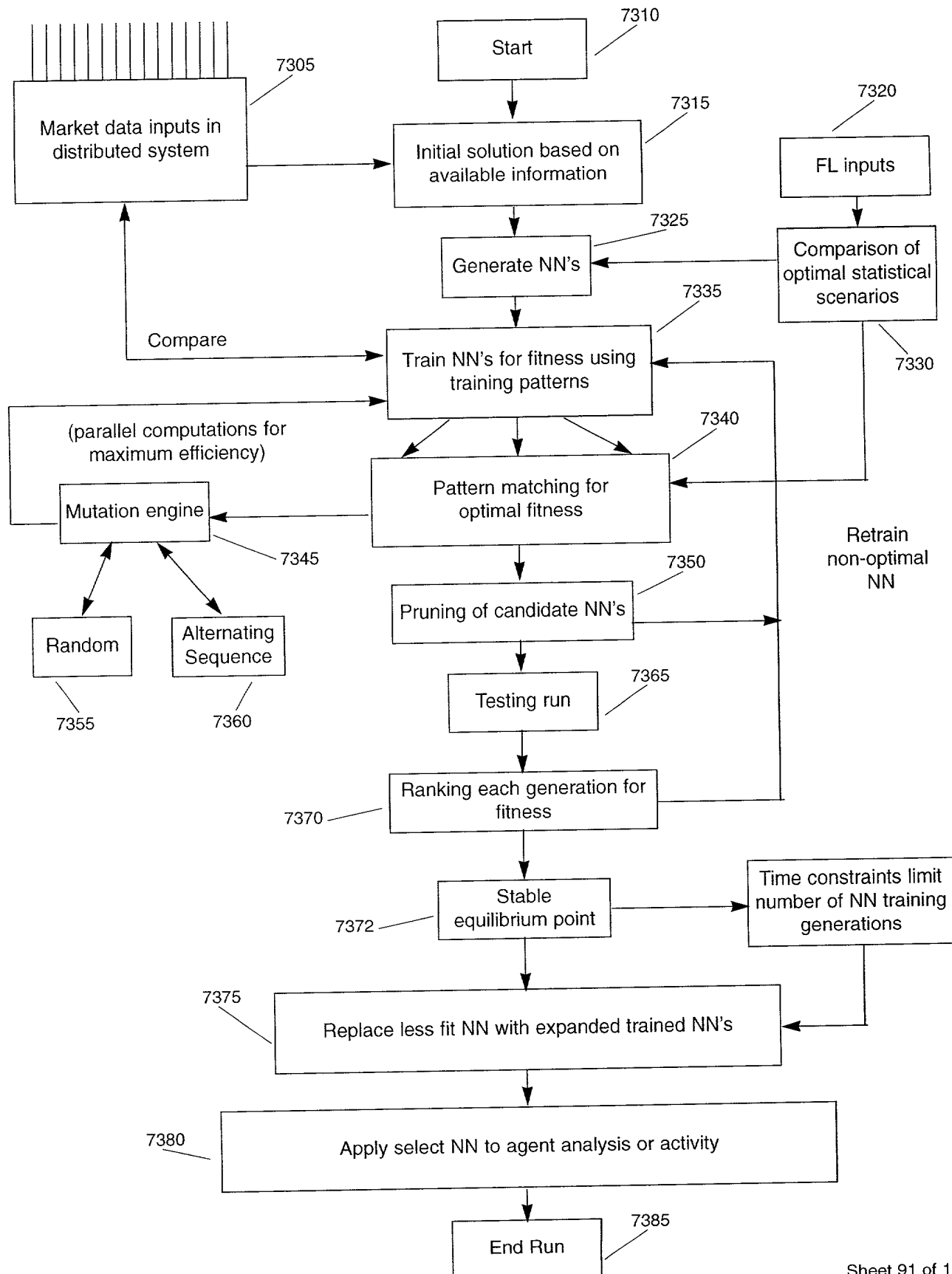
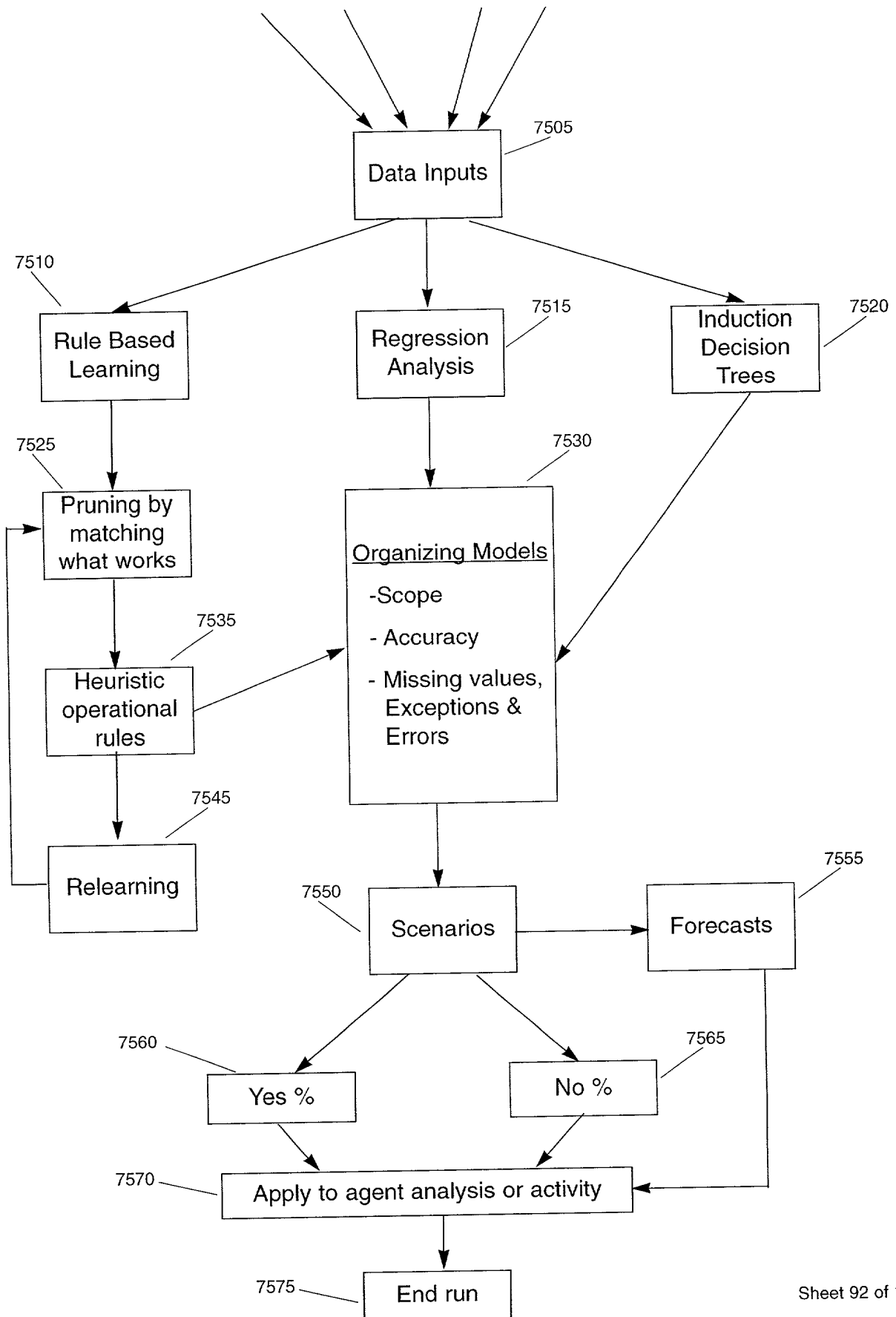
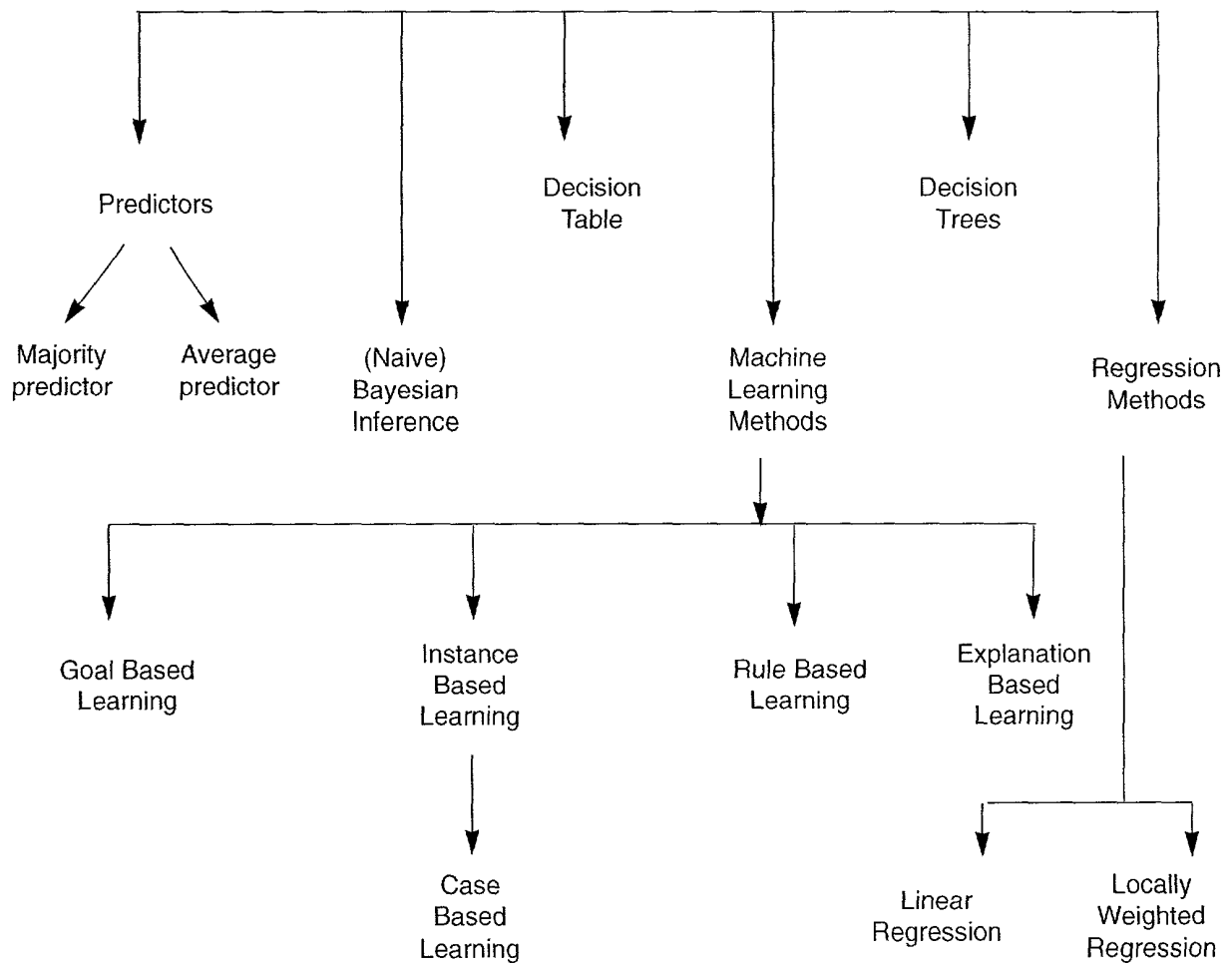


Fig. 75: Genetic Programming System Process



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Fig. 76: Genetic Programming Learning Schemas



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Fig. 77: Evolutionary Computation Applications to Agents

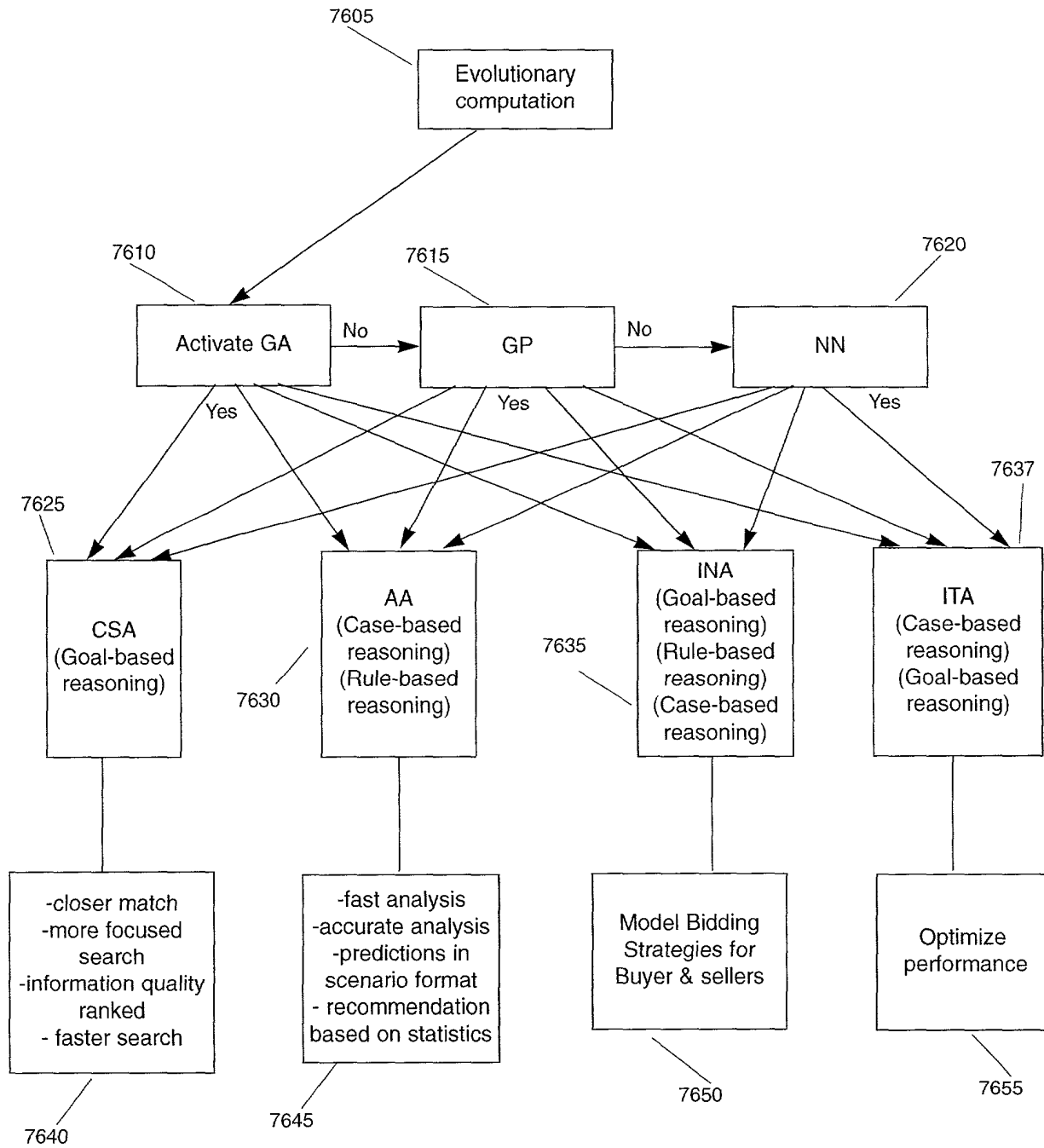


Fig. 78: AI Applied to Agency in a Distributed System

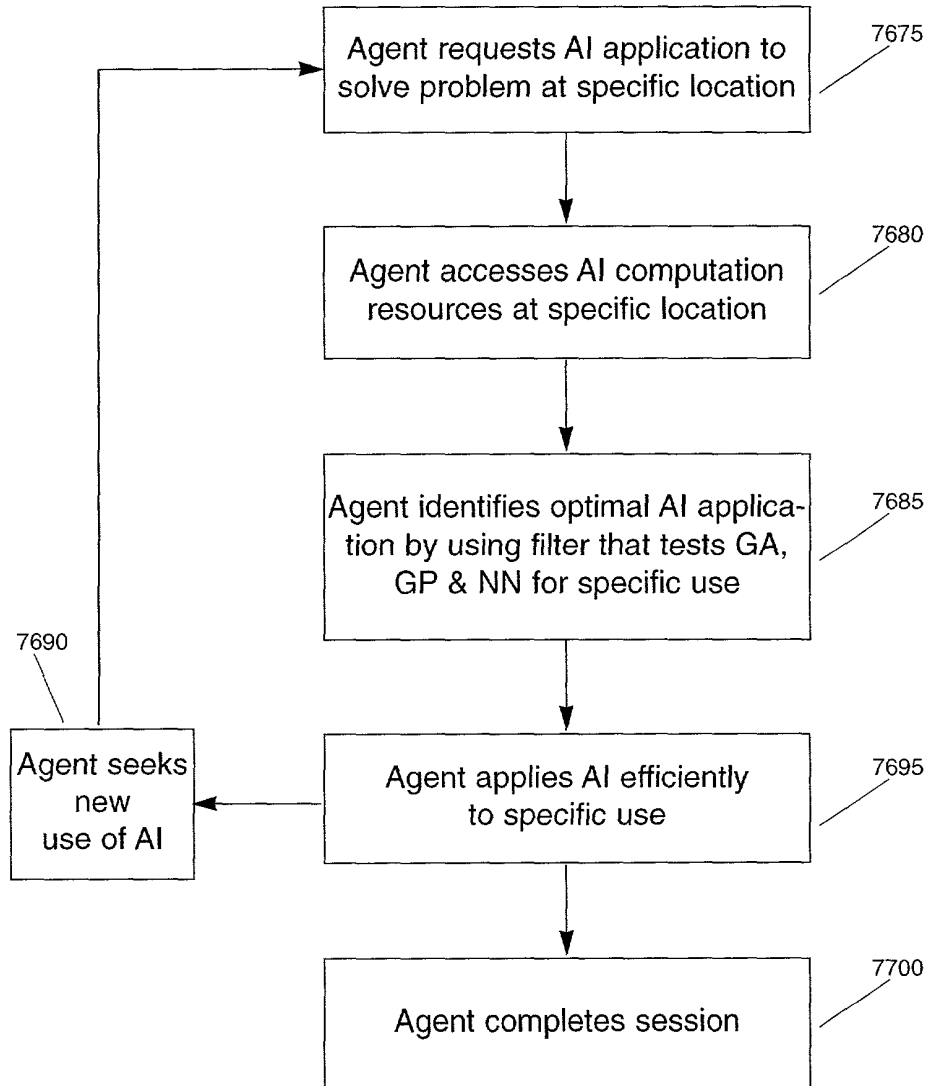


Fig. 79: Evolutionary Computation Architecture and AA/INA Applications

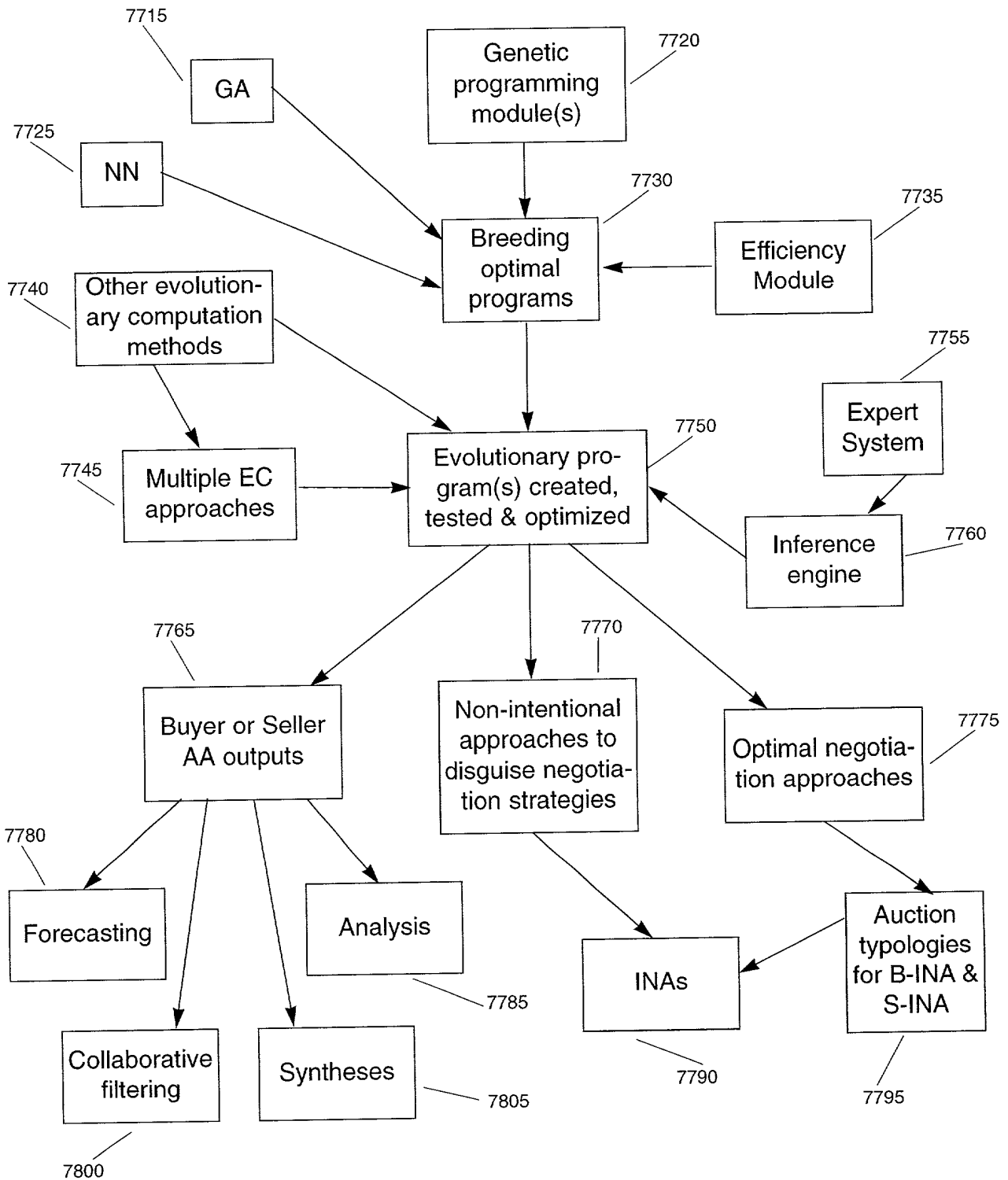


Fig. 80: Layered AI For Optimum Agent Mobility

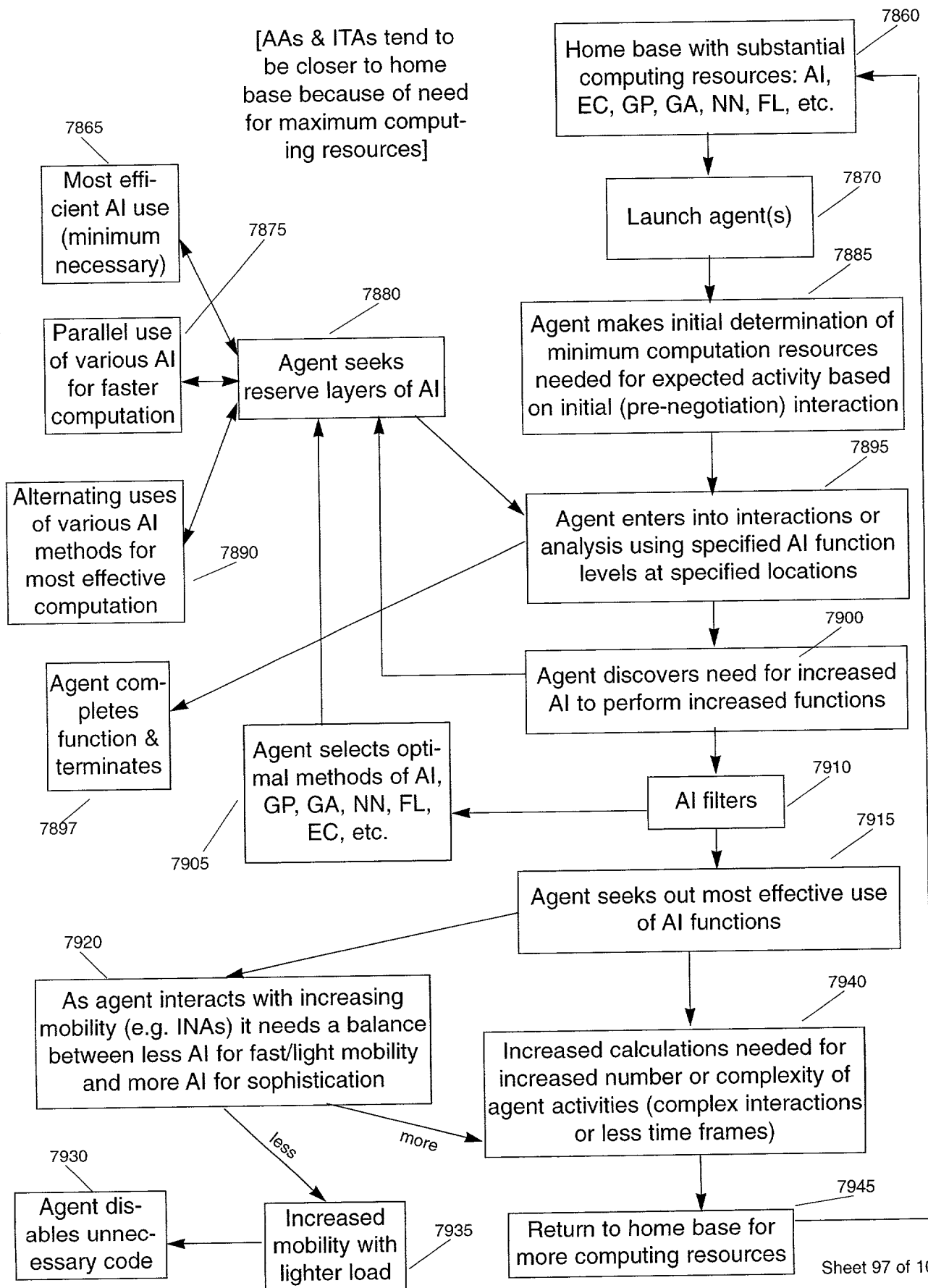


Fig. 81: Analytical Agent System Architecture
Buyer vs. seller viewpoints

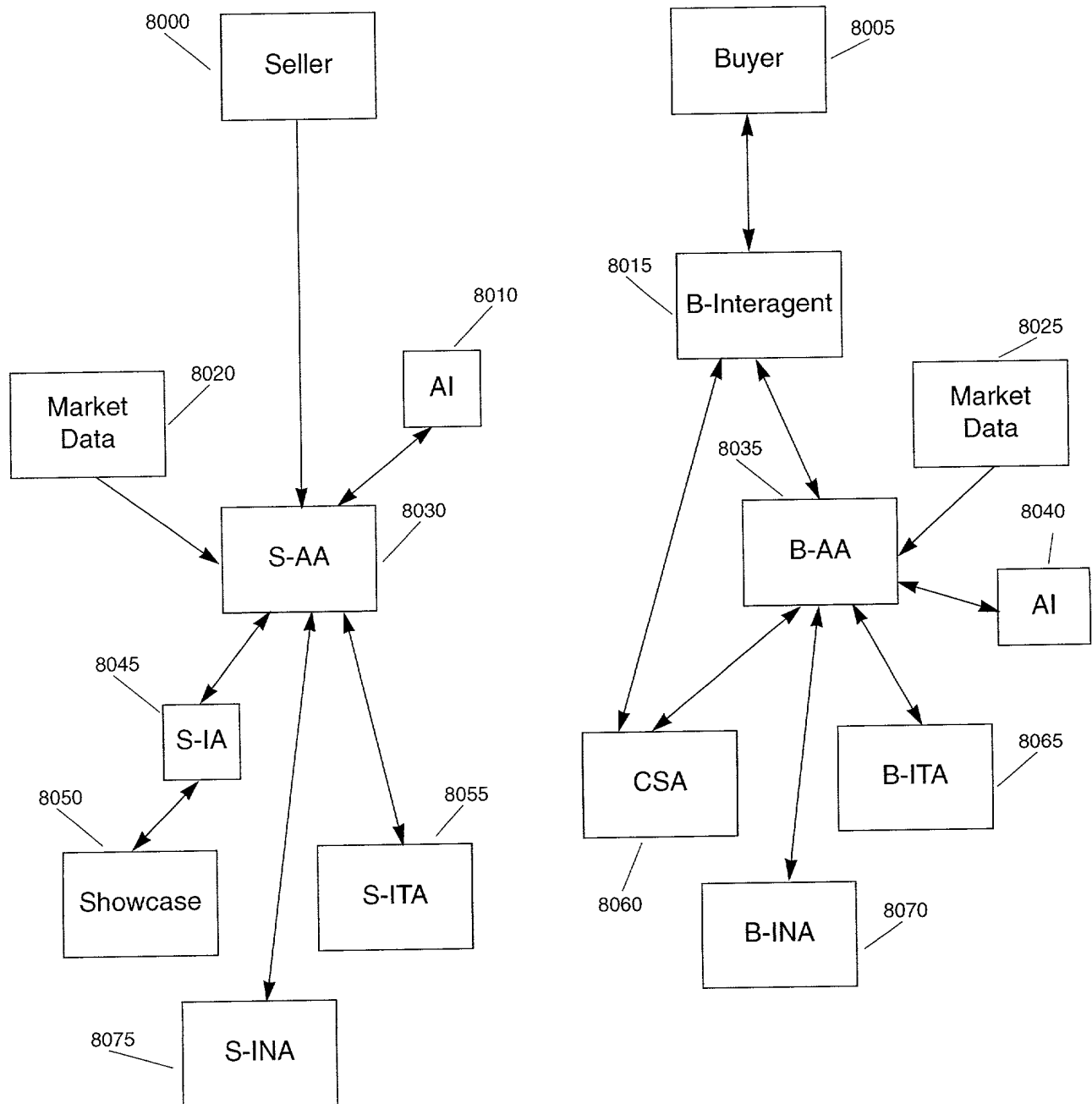


Fig. 82: Kinds Of Data Analysis & Syntheses

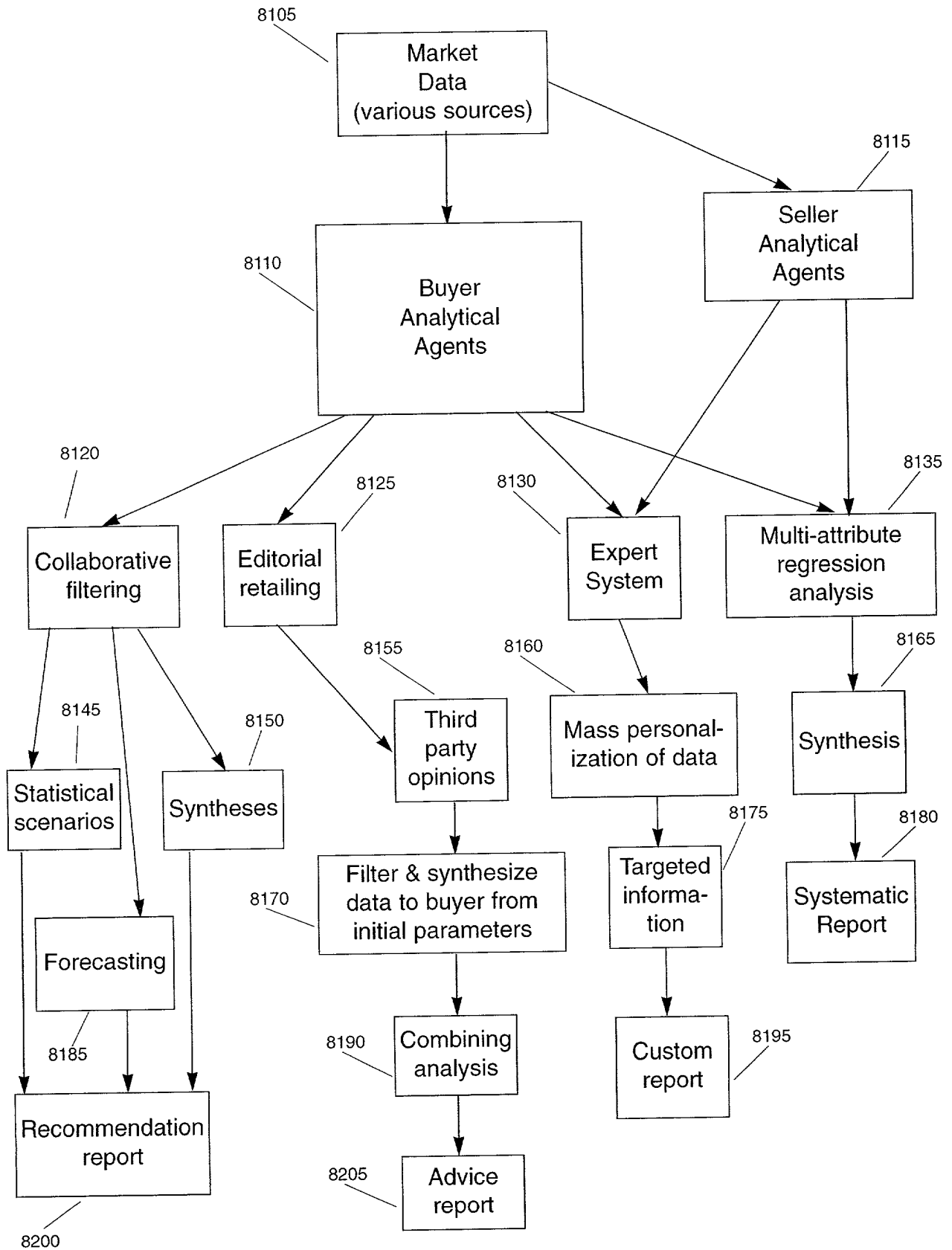


Fig. 83: Analytical Agent Data Flow Process

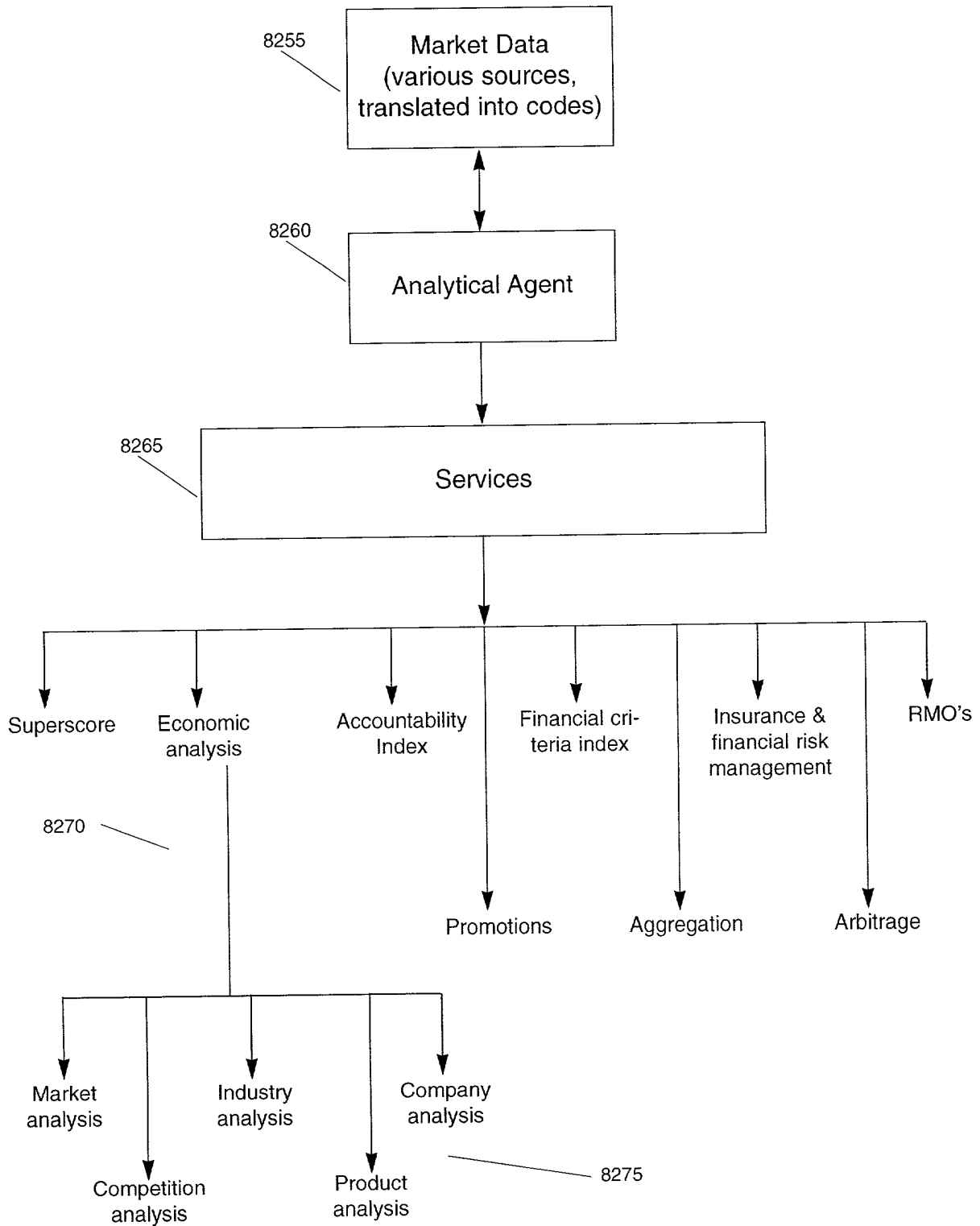


Fig. 84: Data Mining Approaches
CSA & AA interactions

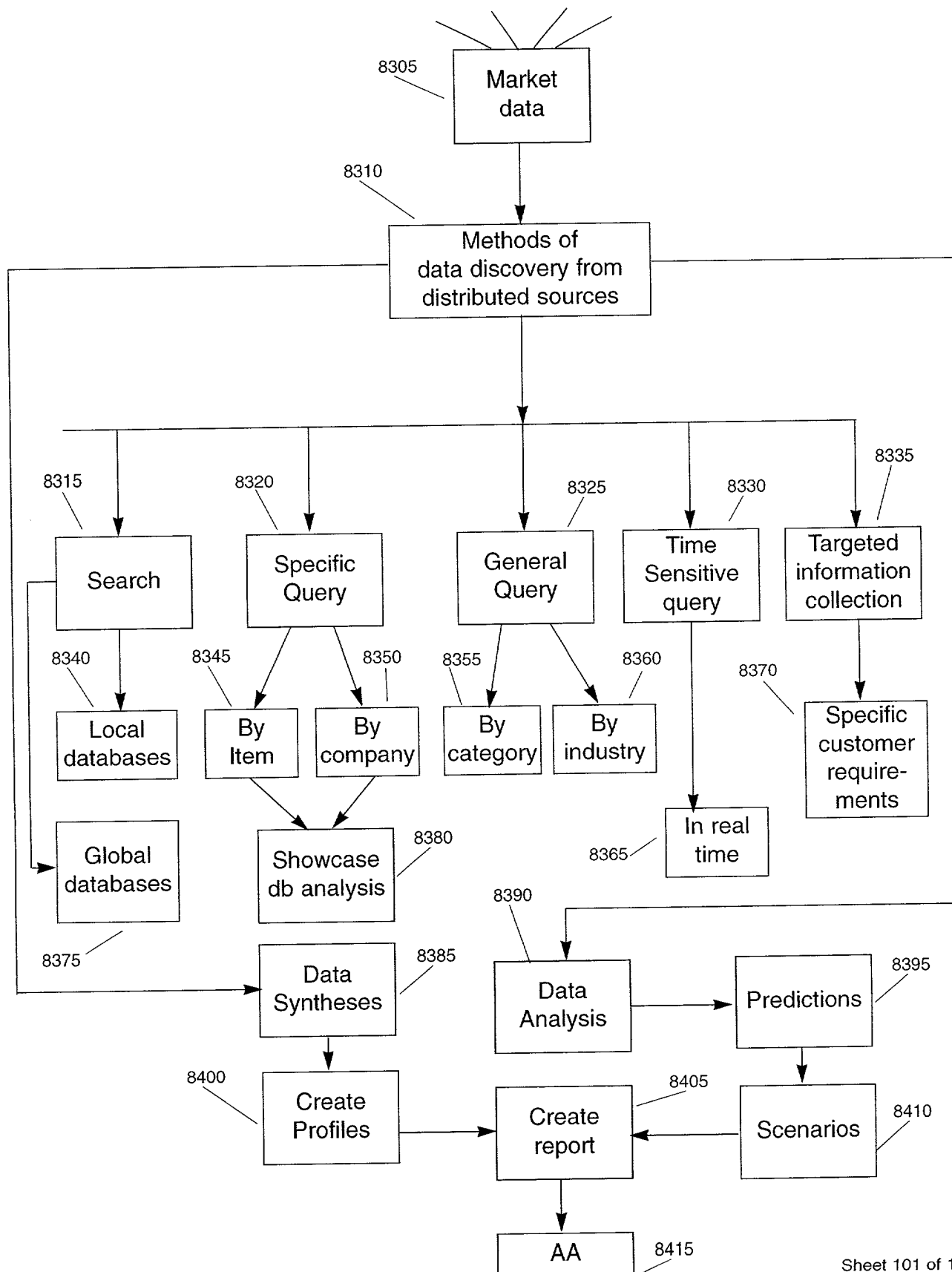


Fig. 85: Advanced Collaborative Filtering for Cross Marketing Recommendations

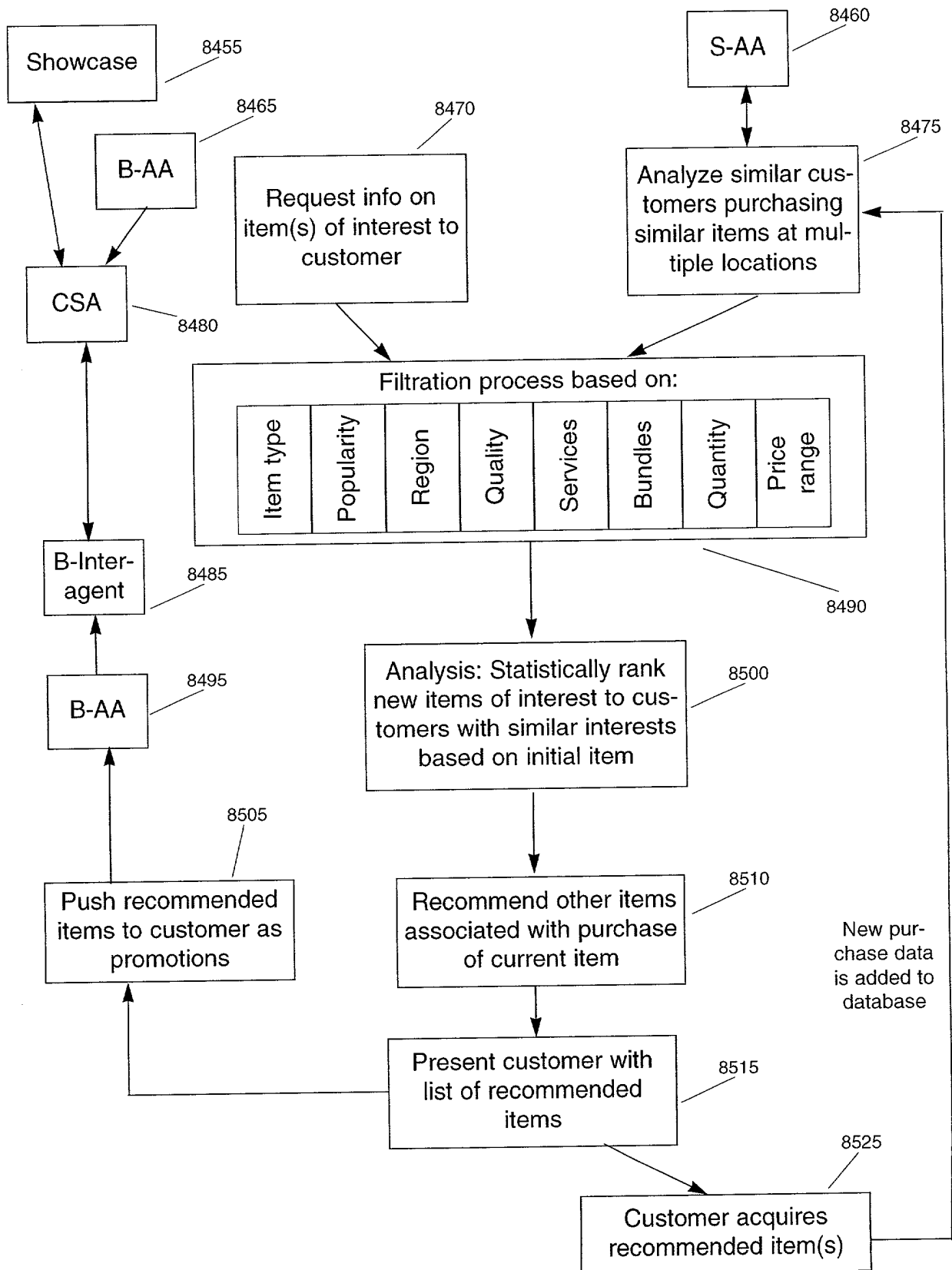


Fig. 86: B-AA Operations With Mobility

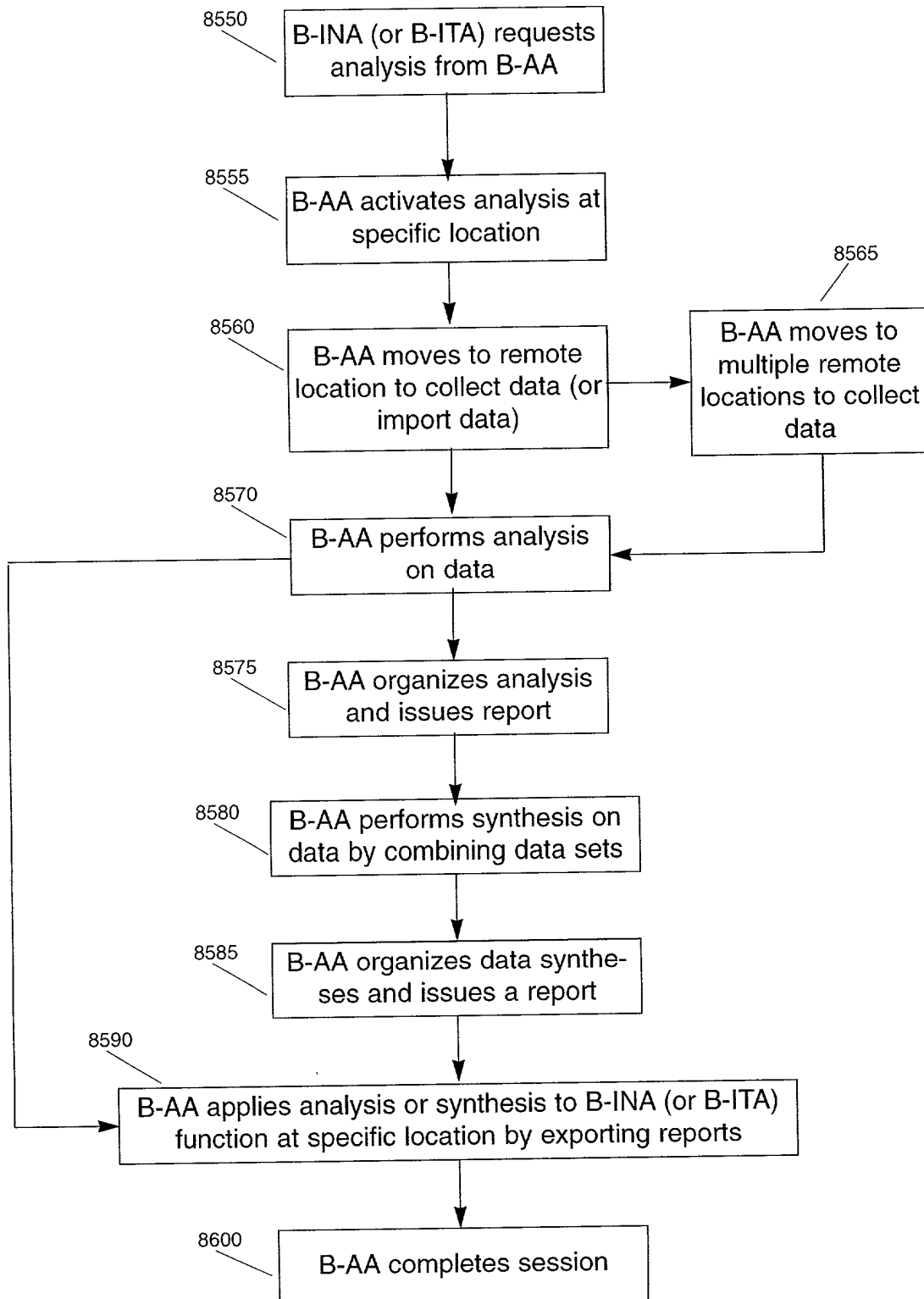


Fig. 87: Super-Score System: Negotiated Variables

1. Object Description – need reference to adaptable tables
2. Seller Description
3. Buyer Information
4. Buyer Credit Data
5. Finance opportunities – credit
6. Seller Promotions
7. Risk Management Options
8. Market Data on Multiple Sellers & Buyers

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|

9. Industry Code
10. Unit Quantity
11. Unit Quality
12. Time to deliver
13. Bundling code — discounts
14. After Sales rating code
15. Quantity Code – each # signifies group category 1-100, 100-1000 etc.
16. Location of Negotiations

| | | | | | | | |
|---|----|----|----|----|----|----|----|
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|----|----|----|----|----|----|----|

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Fig. 88: Economic/Market Analysis Variables

1. Industry Code
2. Industry Analysis
3. Product Analysis
4. Need Index of average prices for each main sector – trends, changes
5. Prices relative to market averages
6. Intra-company analysis of products/services – scope, growth rate change, etc. analysis of data
7. Probability scenarios of industry company
8. Broad Market Analysis (as service)
9. Economic indicators

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|

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Fig. 89: Accountability Index System Variables

1. Bidding History
 - a. % bid
 - b. # of bids
 - c. % of bids won
 - d. # of bids won
2. Follow Up History
 - a. # & re-negs
 - b. # & returns
3. Credit History
 - a. credit limit
 - b. credit growth
4. Risk Factors
 - a. fast changes outside
5. Flexibility ratio
 - a. customer/seller as less rigid to accept deal
6. Tracking Pattern of Negotiation
 - a. figuring into accountability index
7. Transaction Prior Experiences
 - a. bidding history
 - b. success
 - c. problems
8. Follow through ratio
9. Accountability Index
10. Specify factors
11. Credit factors
 - a. debt ratio to net worth
 - b. paying on time
 - c. use up to limits, floating debt
 - d. credit limits
 - e. # of accounts
 - f. risk of default
12. Identify/authenticate agent/entity
13. Responsiveness to requests
 - a. In time factor

| | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | |
| _____ | _____ | _____ | _____ | _____ | | | |
| 9 | 10 | 11 | 12 | 13 | | | |

Fig. 90: Financial Criteria Index System

30+ Digit Code

- 1. Net Worth
- 2. Income
- 3. Cash Flow
- 4. Level of Debt to net worth
- 5. Public records
- 6. Value of assets
- 7. How much credit limit is used
- 8. How often up to (or over) limit
- 9. Financial Criteria factors
- 10.Length of credit accounts
- 11. Credit Limit
- 12.Unsecured vs. Secured debt
- 13.Derogatory Credit – over limit past due
- 14.Number of moves
- 15.Frequency of Place
- 16.Final Index Number to put in Super Score

| | | | | | | | |
|---|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

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Fig. 91: Insurance Risk Factors

1. Use of Stats to establish rates
2. Kinds of losses specified
3. Claim-Adjustment Procedures
4. Claims Procedures
5. Errors
6. Omissions
7. Fraud
8. Accident
9. Premium Accounts
10. Limits/amounts of insurance
11. Full vs. Partial losses
12. Entity past record of claims
13. Costs of losses
14. Risks of specific events
15. Risk of limited loss
16. Risk of total loss

| | | | | | | | |
|---|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

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Fig. 92: List Of Services

1. ITA (Transactions)
 - a. Actual banking services
 - b. Aggregation (for better deals)
 - c. Insurance
 - d. Warranties
 - e. Payment Processing
 - f. Tax Collection & Payments
 - g. Escrow
 - h. Due Diligence
 - i. Legal, tax, customs
 - j. Compliance
 - k. Accounting
 - l. Shipping/delivery
 - m. Delivery tracking
 - n. Post-sale reporting
2. AA (Analysis)
 - a. Economic analysis
 - b. Market/industry analysis
 - c. Company, product & service analysis
 - d. Financial & credit analysis
 - e. Accountability Indices
 - f. Superscore
3. Risk Management Options
 - a. Penalties for sellers not fulfilling by specified time
 - b. Risk priorities – order of preferred risks
 - c. Arbitrage penalties
 - d. Option swaps (exchanging opposing kinds of risks)
 - e. Dynamic pricing of risks based on peak/low risks environment
 - f. MTO Penalties
 - g. JIT Penalties
 - h. Risk Sharing
4. Promotions (CSA)
 - a. Discounts
 - b. Aggregation (group discounts)
 - c. Promotional guarantees
 - d. Promise to provide item by specific time
 - e. Quality increase offer
 - f. Bundling products & services
5. Insurance Risk Management
 - a. Liability (product/service, business, individual)
 - b. Dynamic pricing based on peak risks
 - c. E&O Fraud risks
 - d. Risk of event loss
 - e. Re-insurance – Insurance risk sharing
 - f. Accident risks
 - g. Degrees of losses
6. Financial Risk Management
 - a. Credit analysis /buyer, seller
 - b. Secured debt – kinds of assets
 - c. Unsecured debt
 - d. Structured fin.-by asset category (securitization of assets/debt)
 - e. Packaging debt
 - f. Packaging Ins. & Fin. Opportunities
7. Additional Services
 - a. Bundling products &/or services
 - b. Customized orders
 - c. Mass-customization
 - d. Just-in-time items
 - e. Aggregation of bundles
 - f. Arbitrage of items & bundles
 - g. Computation resources
 - h. Bandwidth resources